

chain bonds:
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exact/norm bonds:
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exact bonds: 2-3 3-4 4-5 7-8 7-18 8-9 9-10

G1:C,H

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:Atom 13:CLASS 14:CLASS 15:CLASS 18:CLASS 19:CLASS

10/082,123 Page 1

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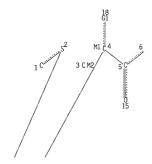
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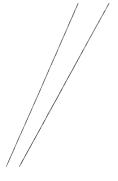


Page 1-A

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Page 2



Page 2-A

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VAR G1=21/22 REP G20=(0-2) 3-2 3-4 NODE ATTRIBUTES: HCOUNT IS M2 ΑT 3 HCOUNT IS M1 AT 4 HCOUNT IS M1 6 ΑT HCOUNT IS M1 ΑT 7 HCOUNT IS M1 ΑT HCOUNT IS M2 ΑT 9 HCOUNT IS M1 AT 14 NSPEC IS RC ΑT 1 10/082.123 Page 3

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GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

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SEARCH TIME: 00.00.01

132 ANSWERS

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FILE "CAPLUS" ENTERED AT 11:23:39 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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10/082.123 Page 4

FILE COVERS 1907 - 4 Mar 2003 VOL 138 ISS 10 FILE LAST UPDATED: 3 Mar 2003 (20030303/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 13

L4 18 L3

=> d 1-18 ibib iabs hitstr

L4 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION MUMBER: 2001:25780 CAPLUS DOCUMENT MUMBER: 134:86548

Preparation of heterocyclylcarbonyl ammo acid hydroxyethylamino sulfonamide retroviral protease

Inhibitors
Getain Bariel P.; De Crescenzo, Gary A.; Frestos,
John N.; Yazquet, Hichael L.; Sikorski, Janes A.;
Dysdas, Baleduru: Naparajan, Srinivasan; Broin,
Birid L.; Richaeld, Jesen S.;
G. D. Serile & Co., USA
U.S.; 85 pp., Cont.-In-part of U. S. Ser. No. 402.419. INVENTORIS):

PATENT ASSIGNEE(S):

SOLDICE .

PATENT NO. KIND DATE APPLICATION NO. DATE

50. 51 N9: KE, IS, MM, SO, SZ, UG, AT, BE, CH, OE, DR, ES, FI, FR, GR, GR, IE, IT, UU, KM, AP, FS, ER, SJ, CF, CD, CL, CD, GA, PRIORITY APPLIA INFO::

(b) 1954-02439 bc 19900007 (b) 1954-02171 AZ 19900007

NARPAT 134:85548 OTHER CRIPCE/CV

L4 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

●H(1

- 189(3):9-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-19-189(3):91-

Absolute stereochemistry.

Carbanic acid, (1(R)-2-[[(1S,28)-3-(11,3-betzodroxal-5-y)sulfany)){2-nettylpropyl pannoj-2-hydroxy-1-(phenylnethyl)propyl jannoj-1-(nethylsulfonyl barthyl]-2-oxorthyl]-, 1,1-dinettyl ethyl ester (901) (CA 1800x NWE)

Abrolute stereochesteteu

Page 5

L4 ANSWER 1 OF 18 CAPLUS COPTRIGHT 2003 ACS (Continued)

ABSTRACT

ASSINGE.

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Absolute stereochemistry.

14 ANSWER 1 OF 18 CAPLIS COPYRIGHT 2009 ACS (Contrinued)

REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION MURBER: 2001:10884 CAPLUS DOCUMENT NUMBER: 134:71903

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. MUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 1999-411374 19991004 US 2000-672449 20000529 US 1995-401838 82 19950310 WD 1996-US2682 AI 19960307 US 1997-913069 AI 19971219 US 1999-411374 AI 19991004 US 6169085 B1 20010102 US 6380188 B1 20020430 PRICRITY APPLN: 1NFO.:

OTHER SOURCE(S): HARPAT 134,71903

ASSING: Interpretable photographylatic pathwests or most.
Section of the photographylatic pathwests or most.
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L4 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

Absolute stereochemistry

RN 183004-75-3 CAPLUS N Proparamide. N-{15.38}-3-{{(2,3-dit)ydro-5-benzofuranyl)sulforyl}{2}; entbylyopoyl)asino}-2-hydroxy-1-cphonylmethyl lyopoyl]-2-methyl-3(nethylsulforyl)-. (25)- (95) (CA INDEX NAME)

Absolute Stereochemistry

Carbania cardi. (3-ff[(28.35)-2-hydroxy-3-ff(25)-2-methyl-3-(methyl sul fortyl)-1-oxoproxyl [Janino]-4-phenyl buxyl [(2-methyl proxyl)-anino [sul fortyl]-1H-banzini dazol-2-yl)-. methyl-ester (9CI) ((A INEE NME)

Absolute stereochemistry

Page 6

- L4 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2803 ACS (Continued) methylsulfinyl deriv. 1 (claimed compd.) showed 1650 values 2 and 7 mM and E650 values 2 and 40 MM for the two isomers.
- IT 174303-66-3P 183004-72-0P 183004-73-1P 183004-74-2P 183004-75-3P 183004-76-4P 183004-77-5P 183004-78-6P 183182-29-8P
- ISSOS P.7-9 ISSOS P.50 PERSON P.50 PERSON

Absolute stereoctenistry

18304-72-0 CAPLUS Proparamide, N-{15,28}-3-{[(2,3-dishdro-1,4-benzodraxin-6-y1)sulfonyl](2-methylpropyl)arino)-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-(methylsulfonyl)-, (25)- (25) (CA IMBEX MANE)

Absolute Stereochemister

- 8N 183054-73-1 CAPLUS
 CN Propanande. N-E(15-28)-3-E(6-berzothiazolylsulfonyl)(2methylpropyl)anino]-2-hydroxyl-1-(phenylinethyl)gropyl]-2-methyl-3(methylsulfonyl)-, (25)- (9(1)) (CA INDEX NOVE).
- L4 ANSWER 2 DF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

N 183094-77-5 CAPLIS (N Propanatide, N. (135.28)-3-[((2-anino-6-benzothtazoly))sulfory)](2-anthylpropy)]amino]-2-hydroxy-1-(phenylnethyl)propy)]-2-methyl-3-(anthylsulfoxy))-, (25)- (901) (CA IMDEX NAME)

RM 18304-78-6 CAFUS
(N Programide, N-{1(15,28)-3-{(6-benzothiazolyl sul fonyl)1(2-methylorgyl)aminoj-2-hydroxy-1-{phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (25)- (9CI) (CA INDEX MME)

Absolute stereochemistry.

RN 183182-29-8 CAPLUS
CN Proparamide, N-(ISLSR)-3-[(1.3-benzodiuxol-5-y)sulfonyl)(2methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-((S)methylsulfonyl)-. (25)- (95)) (CA. IMBEX MARE)

L4 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT 185084-99-19 183005-01-89
Ric RT (Rectard): SRM (Symthetic preparation): PREP (Preparation): RACT (Experiment of all forwards planned hydrosymbylamino sulfonende retrorical processe similitors)
RE 185006-99-11 CAMLS

RN 183094-99-1 CAPLUS ON Ethanethrion acid. S-[(25)-3-[[(15.2R)-3-[(1.3-benzodioxol-5-ylsulfonyl)(2 methylpropyl)amino]-2-hydroxy-1-(pherylmethyl)propyl]amino]-2-methyl-3-oxopropyl] ester (9C1) (CA INDEX NAVE)

Abrolute stempochasistsu

183005-01-8 CAPLUS
Propanamide, N-[(1S.2R)-3-E(1.3-benzodicxo]-S-ylsulfoeyl)(2-methylpropyl)aminoj-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-(methyltho)-, (2S)- (9C) (CA INDEX NHE)

L4 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:821607 CAPLUS
DOCUMENT NUMBER: 133 360619
TITLE: Synthesis of bis-anino

133 359519
Synthesis of bis-amino acid hydroxyethylamino aufformance retroveral protesse ministror aufformance retroveral protesse ministror in the control of the control INVENTOR/SA

PATENT ASSIGNEE(S):

abandoned. CODEN: USXXAM Patent

DOCUMENT TYPE:

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO. WD 9628464 M0 1997-4149 19970909 U5 2000-495334 20100201 U5 2000-695783 20101025 U5 1995-402050 82 19950310 U5 1995-479071 A 19950007 W0 1995-032037 A3 19950307 W0 1995-032036 A1 19970307 U5 1996-913136 A1 199101 U5 2000-495334 A1 20000201

L4 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)
REFERENCE COUNT: 59 THESE ASE 59 CITED REFERENCES AWAILABLE FOR THIS
RECORD, ALL CITETIONS AWAILABLE IN THE RE FORMET

L4 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) OTHER SOURCE(S): MARPAT 133:350519

MARKETRACT: MARKET 133:350519

ABSTRACT:
Peptides RI3MHCH2CONHCHRICONHCH(CH2Ph)CH(OH)CH2N(Bu-1)SQ2R4 (R1 = C1-5alkyl. reprinter stand-occord-

1T 183653-90-4P 183653-91-5P 183653-92-6P

183953-93-7P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (synthesis of bis-amino acid hydroxyethylamno sulfonamide retroviral

(synthesis of Dis-anno essu gyprocycuyrama proteste mibitors)

81 IBSSS-56-4 CAPLIS

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60 Carbanic

RW 1835S3-91-5 CAPL(8) -2-{(15.28)-3-{(1.3-benzodroun1-5-ylsulforyl){2-extbylorgollamino};2-hydroxy-1-(phenylnethyl)propyl]asino}-1-[Onctylsulforyl)nethyl]-2-oscethyl)-. 1.1-dinethylethyl ester (9C1) INEX RWSC



- [4] ARSAR 3 0F 18 CPPLIS CDPRIGHT 2003 AS (Continued)
 80 18355-92-6 CAPLIS
 90 Propagament 2- statin-H-(115.2R)-3-(11.3-benzostonol-5-y)sul*tonyl)(2methylpropyl)astroj-2-hydrogy-1-(phray)heethylpropyl)-3-(nethylsul*foryl)monohydrochrinde, CBN-19711 (CA) HOSE XMD.

RN 183551-93-7 CAPLUS
CN Proparamide, NF(1S.SR)-3-(1L.3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)kennol-2-hydroxy-1-(phenylmethyl)propyl)-2-(chloroacetyl)aminol-3-(methylsulfonyl)-. (2R)- (9ČI) (CA INCEX NAME)

REFERENCE COUNT:

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

60

AGENDET:

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- IT 183563-90-4P 183553-91-SP 183563-92-6P 183553-93-7P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): PACT (Reactant or reagent)
 (synthesis of bis-anino acid hydroxyethylamino sulforamide retroviral
- (synthesis of bis-asino acid hydroxychylasino salfonande retrorir protesse inhibitors) 1003-39 et al. (1,3)-1(1,3)-benodiasil-5-ylsulfony)(2-sethyloroy)lasino)-2-bydroxy-1-(phryliethyloroy)lasino)-1 (fonthylthiolenthyl)-2-onochyl)-1.11-dinethylethyl ester (9Cl) (CA MCX-MMC)

Absolute stereochemistry

Page 8

L4 AVISHER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION MANSER: 2000:784383 CAPLUS DOCUMENT NUMBER: 133:335463

INVENTOR(S):

SOURCE:

133:33463 Synthesis of bis-amino acid hydroxyethylasino sulfonaide retroviral portease inhibitors fortama. Daniel P. Georgescom, Gary A.; Freston, John Gartam, Cantel P.; Georgescom, Gary A.; Freston, Joh Reinstein, Georgescom, J. Brown, Gariel Belkutor: Magarajam, Srinivasan Raj; Brown, Qariel L.; Robasid, Joseph J. G. O. Serile & Co., LSA U.S., 148 pp. Cont. in-pert of U.S. Ser. No. 402,450. PATENT ASSIGNEE(S):

CODEN: USTXAN

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

> KIND DATE APPLICATION NO. DATE

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US 6388132 PRIORITY APPLN, INFO.:

US 2000-694788 20091024 US 1995-402450 B2 19950307 US 1995-479071 A 19950307 US 1996-910337 A3 19950307 US 1996-910396 A1 19980121 US 2000-496334 A1 2000201

us 1998-913096 US 2010-495334 MARPAT 133:335463

GRAPHIC IMAGE

L4 AMSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

18353-91-5 CAPLIS
Carbeitc acid. (1(R)-2-[([13.28)-3-[(1,3-beszodioxol-5-yisulfonyl)(2-acidy)propyl-animo]-2-bydrowy-1-(phenylectiyi)propyl-janimo]-1[(inetty)sulfonyl-acidy(1)-2-oxocthyl1-. 1.1-dimethylectyl-ester (9Cl)
(CA MOCK WRC)

Absolute stereochemistry

18353: 92-6 CAPLUS
Properantide. 2-partino-H-[(15,28)-3-[(1,3-berapodioxol-5-yisulforyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-(methylsulfonyl)-monohydrochloride. (28)- (9C1) (CA INDEX NWED)

●HC1

RN 18353-93-7 CAPLUS CN Propanantde, N-{(15.28)-3-{(1.3-benzodioxo1-5-ylsulfony1)(2-

ANSWER 4 OF 18 CAPLUS (OPPRIGHT 2003 ACS (Continued) nethylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(chloroacetyl)amino]-3-(methylsulfonyl)-, (28)- (9CI) (CA INDEX NAME)

REFERENCE COUNT.

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 36

L4 ARSICE 5 OF 18 CAPALIS COPRIGIT 2003 ACS Continued) process comprising reacting a benon-fund heterocyclic consol, with an 500 complex in the presence of a water materials in conversion between consolerations and the second of the control of th

IT 183812 - 50 - 2P

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inhibitors) 183812-50-2 CAPLUS

160617-017 Owner-tended N-[(IR)-2-[[(IS,2R)-3-[(I,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amnol-2-hydroxy-1-(phenylmethyl)propyl]amnol-I-[(methylsulfonyl)methyl]-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT

18033-19-19-18033-97-97-18353-91-59
18033-19-19-18033-93-97-18033-93-19-18033-19-19-18033-93-19-18033-93-19-18033-93-19-18033-93-19-18033-93-19-18033-93-19-18033-93-19-18033-93-1803-93-1803003-93-18033-93-18033-93-18033-93-18033-93-18033-93-18033-93-18030-18033-93-18033-93-18033-93-18033-93-18033-93-18030-18030-98-18 inhibitors)

thirbitors)
18355-89-1 CARUS
1.9yrvol (direcoctame, N-[c(R)-2-[[(1)5.20)-3-[(1,3-benzodoxo)-5-ylsal fosy) (2-extly) prosy) Jamino)-2-hydroxy-1-(pheny) netty) Iprosy) Jamino)-[(excty)-Jaul fosy) frectly] y2-2-oxotty)]-, acrohydrochloride (9C) (CA

Absolute stereochemistry

Page 9

L4 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:769109 CAPLUS DOCUMENT MARKER: 133:322130

las:accla) Synthesis of benzo-fused heterocyclic sulfonyl chlorides for preparation of amino acid hydroxyethylamine sulfonamide retroviral protease

inhibitors Kunda, Sastry A.; Letendre, Leo J.: De Crescenzo, Gary INVENTOR(S):

A.
6. D. Searle & Co., USA
U.S., 95 pp., Cont.-in-part of U.S. 5.756.533.
CODGN: USCAUM

PATENT ASSIGNEE(S) SOURCE:

DOCUMENT TYPE Patient

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:			
		APPLICATION NO.	DATE
US 6140505	A 2000103	1 15 1998-80928	19980519
IIS 5756533	A 1998152	6 · US 1995-474052	19950407
		0 EP 2002-11526	
		. FR. GB. GR. IT. LI. LU	
	LV. FI		
		5 WD 1999-US7847	10000110
		. BA. BB. BG. BR. BY. CA	
		. GO. GE. GH. GH. HR. HU	
		. LK. LR. LS. LT. LU. LV	
		. RD, RU, SD, SE, SG, SI	
TR, TT,	UA. UG. US. UZ	, VN. YU. ZA, ZH. AM. AZ	. BY. KG. KZ. NO.
RU. TJ.	. TH		
RN: GH. GH.	KE. LS. NV. SD	. SL. SZ. UG. ZW. AT. BE	. CH. CY. DE. DK.
		. IT. LU. MC. NL. PT. SE	
		. MR. ME. SW. TD. TG	
		6 AU 1999-38684	10000518
		0 US 1999-451920	
		5 US 2001-836443	
	B2 2002100		50010410
PRIORITY APPLN, INFO):		19950310
			19950607
		EP 1996-907135 A3	19960307

OTHER SOURCE(S):

US 1998-80928 AT 19980519 W0 1999-US7007 W 19990518 US 1999-451920 A3 19991201 CASREACT 133:322130: MARPAT 133:322130 OFFICE ADMINISTRACE
Benzo-fused heterocyclic sulfory) halides for the press of amino acid
hydroxyethylamine sulfomamide retroviral protease inhibitors were obtained by a

L4 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 1835S3-90-4 CAPLUS CN Carbanic acid. [(1R)-2-[[(1S,2R)-3-[(1,3-benzodioxo]-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-1-[(methylthio)methyl]-2-oxoethyl]-. 1,1-dimethylethyl ester (901) (CA INDEX MANE)

18353-91-5 CAPLUS Certeinc acid, ([18]-2-[[(15.26)-3-[(1.3-benzodroxol-5-yisulfony)]/2-acidylpropy)-innn-]-2-hydroxy-1-(phonylacidy)-pycopy)-jamino]-1-[(decty|sulfony)-iz-coocity]]-, 1.1-disestylethyl ester (9CI) (CA RODIX MANC)

 $\label{eq:continuity} \begin{array}{ll} 183531\cdot 92\cdot 6 & \text{CAPLUS} \\ \text{Proparamide. } 2\text{-anino-H-}\{(15.28)\cdot 3\cdot [(1.3\text{-benzodiosol}\cdot 5\cdot y] \, \text{sulfroy}\}\} (2\text{-nethyl propy}) \, \text{anino} \{2\cdot hydroxy-1\cdot (phenylaethyl) propy}\} \cdot 3\cdot (\text{nethyl sulfroy})\} \\ \end{array}$

L4 ARSHER 5 DF 18 CAPLUS COPYRIGHT 2003 ACS (monohydrochloride, (28)- (9C1) (CA INDEX HAME) (Continued)

183553-93-7 CAPUS
Propinanide. 8-{(15.28)-3-{(1.3-bencodioxol-5-ylsulfonyl){2exthylorogyllaming}-2-hydroxy-1-{phenylnethyllprogyll-2[(chloroxcetyl)aming]-3-(nethylsulfonyl)-. (28)- (901) (CA. IMSEX NAME)

Absolute stereochemistry

REFERENCE COUNT-

13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE-FORMAT

L4 ANSWER 6 DF 18 CAPLUS COPYRIGHT 2003 ACS (Cont. Invest)

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1T 183553-89-1P

- 18553-6-19 c. Section of section and section section section 180 (Bellogical Section of Section Conference on Section Conference On

Absolute stereochemistry

●HC1

17 183553-90-4P 183S53-91-5P 183S53-92-6F 183553-93-7P 183812-50-2P

Page 10

L4 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:753229 CAPLUS COCUPENT NUMBER: 132:6692

benzo fused heterocyclo sulfonyl hailde intermediates for the preparation of amino acids as HIV processe

inhibitors Kunda, Sastry A.; Letendre, Leo J.; De Crescenzo, Gary INVENTOR(S):

PATENT ASSIGNEE(S):

A.
G.D. Searle & Co.. USA
PCT Int. Appl., 221 pp.
COOEN- PIXOS2
Patent
English

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. MUM. COUNT: PATENT INFORMATION:

PATENT MO. KIND DATE APPLICATION NO. DATE WD 9959989

THE 150 - 160 - 161 - 16 US 6140505

US 1998-80928 A1 19980519 US 1995-402287 B2 19950310 US 1995-474052 A2 19950607 WO 1999-US7047 W 19990518 US 1999-451920 A3 19991201

OTHER SOURCE(S): GRAPHIC IMAGE: MARPAT 132:6692

- L4 AMSMER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RL: RCT (Reactart): SPN (Synthetic preparation): PREP (Preparation): RACT
 (Reactant or reegent)
 (Dento fused heterocyclo sulfonyl halide intermediates for the propr
- (benzo fued heterocyclo sulfory) halide intermediates for the proj of anino acidis as filly protesse imbibation. Ri 83853-90-4 GMUS Carbanic acid, (118)-2-([(15.80-3-((1.3-benzodioxe)-5-y)sulfory)]); esthylproxyllasino]-2-hydroxyl-1-(herbylbathylproxyllasino)-1-((bettylbrinobettyl)-2-hydroxyll-1-(herbylbathylbriy)-1-((15.0-(15.80-15)-15.0-(15.80-15))). [(methy)thic

Absolute stere

88 18353-91-5 CAPL(S CK Carbanic acid., 1(RK)-2-[[(15.28)-3-[(1.3-benzodroxol-5-ylsulfonyl)](2-eethyloroy) laminoj 2-thydroxy-1-(phorylsethyl)proxyl jamnoj-1-((actrylsulfonyl)sethyl)-2-owethyl)-. 1.1-disethylethyl ester (9(1) (CA

Absolute stereochemistry

RN 183553-92-6 CAPLUS
CN Propumande, 2-amno-H-[(15,20)-3-[(1,3-benzodroxol-5-yl-sulfonyl)(2-actly)propyl)-amino)-2-typidroxyl-(c)benylmethyl-propyl)-3-(methylsulfonyl)-acnohydrochloride, (28)- (901) (CA IMBEX MAME)

L4 ANSWER 6 DF 18 CAPLIS COPYRIGHT 2003 ACS (Continued)



18353-93-7 CAPUS
Proparientee. N-{(15.28)-3-{(1.3-benrodioxel-5-y)-gul fonyl)}(2methylpropyl)astroj-2-hydroxy-1-(phenylnethyl)propyl]-2{(chloroacetyl)aming}-3-(methylsulfonyl)-. (28)- (9C) (CA IMDEX MAME)

[83812-50-2 CAPLIS 1-Pyrrol I direccetamice. N-{(18)-2-{[(15.28)-3-{(1.3-bencodioxol-5-ylsul fory) / Emethy | Innogy | Jaarino | 1-2-hydroxy-1-(Dietry inecty) | Joropy | Jantno | 1-{(setty) | sul fory) | Xecthy| | 2-0-xoethy| | - (9C) | (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSHER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:730035 CAPLUS DOCUMENT NUMBER: 131:337352

PAUS COPRIBIT 2003 ACS 1999/20035 CAUSS 131:347352 AUTO 1999/20035 CAUSS 131:347352 AUTO 1999/20035 CAUSS 131:347352 AUTO 1999/2003 AUTO 1999

INVENTOR(S):

PATENT ASSIGNEE(S):

abandoned. COCEN: LISXXAN

Patent English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORNATION.

PA	TENT	MO.		KE	NO	DATE			A	PPLI	CATI	ON N	0.	DATE			
	5988			A			1116							1997			
MO	962	3418		A	1	1996	0919		M	0 19	96-11	5268	2	1996	0307		
	W	AL.	AM,	AT,	AU	AZ.	88.	BG.	BR.	BY.	CA.	CH.	CN.	CZ.	Œ.	OK.	Ε
		ES.	FI.	GB.	GE.	HU.	IS.	JP.	KE.	KG.	KP.	KR.	KZ.	LK.	LR.	LS.	ì.
				HD.	MG	HK.	MN.	Mi.	HX.	NO.	NZ.	PL.	PT.	RO.	RU.	SO.	Š
		SG.	SI														
	RV.	KE.	LS.	MV.	SO.	\$2.	UG.	AT.	BE.	CH.	Œ.	QK.	ES.	FI.	FR.	SB.	G
		IE.	17.	LU.	MC.	м.,	PT.	SE.	BF.	BJ.	CF.	06.	CI.	CM.	GA		
US	6384	188		8	1	2002	0430		US	5 20	00-6	7244	9	2000	0929		

PRIORITY APPLIN INFO

11 20020430 US 2000-6724-9 20009729 15 1995-1018-88 P2 1995-0019 16 1996-US2892 W 19960307 15 1995-19565 A 2 19960307 15 1997-913069 A1 19971219 1997-913049 A1 19971219 NARPAT 131.337352

OTHER SOURCE(S):

ABSTRACT:

ARSINULI: SUITONYIAINANYIANINO hydroxyethylamino sulfonanide compds. 855(DICCHCINGTRECOROPEZHCHIDORNESSOM (RI = H. alkyl - alkenyl, alkynyl, hydroxysikyl, alboyajkyl, cyanoaikyl, Occober. Occober. Occober. CHCSMe, CHZSOMe, CHSOZNIe: R2 = alkyl, aralkyl, alkylthioaikyl, arylthioaikyl.

Page 11

L4 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2013 ACS (Continued)

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ASSER 7 0° IB CARUS COPPRIOR 2003 ACS (Continued) cyclositylally!: 81 - ally1. cyclosityl. cyclositylally10; 81 - ally1. cyclosityl. cyclositylally10; 81 - betac-fused heteroary1 on febrocys1. (1. - 2. - 0.2) ever pred, as returnis1 processe (hibbitors. Thus. 41(28-hottory-3-(1.2-establyropy))[(1.3-betaclfors)-5-y); yallorsy1-priors). 5-(ephre)-jacthy-jacy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(estay)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-estay]-5-(establyropy)[-1.3-esta

| 17 | 17/03/-66-09 | 183004-72-09 | 183004-73-19 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 | 183004-74-09 |

RV 17433-66-3 CAPLIS

OF Proparanties, N-(115.28)-3-(11.3-berzodraxn1-5-ylsulfony1)(2-nethylpropy1)aming)-2-hydroxy-1-(phenylmethyl)gropy1]-2-nethyl-3-(nethylsulfony1)-. (23)- (9(1) (CC INDEX NAME)

this lute stereochemistry

Absolute steneochowistry

1830]4-73-1 CAPUS
Propanande. M-{(15.28)-3-{(6-benzothiazolylsulfonyl){(2nethylprogylamino]-2-hydroxy-1-(phinylmethylpropyl]-2-methyl-3(methylsulfonyl)-. (25)- (901) (CA INDEX NAME)

L4 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

8v 183004-74-2 CAPLUS

ON Propananide. N-(1(S.28)-3-[(1,3-beroadioxol-5-y)sulfonyl)(2-methylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-((R)-methylsulfinyl)-. (25)- (9(1) (CA IMBEX IMBE)

RN 183094-78-6 CAPLUS
CN Programatide. N-{(1S.28)-3-{(5-benzothiazolylsulfonyl)(2-methylprogyl)amino}-2-hydroxy-1-(phenylmethyl)progyl}-2-methyl-3-(methylsulfonyl)-. (25)- (901) (CA IMDEX RAPE)

- 88 18382-29-8 CAPLUS

 ON Proparamide, B-F(15.28)-3-(11.3-benzodrov)-5-y1sulfony)1/2nethylogol/laminol-2-hydroxy-1-(phenylnethylynopy)1-2-methyl-3-(5)nethylsulfiny)1-. (25)- (9(1) (CA INDEX NAME)
- L4 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

- | T | 18500+75-9* 18500+76-9* 18500+77-59* | 39* (Synthetic proparation); REP (Preparation); REP (Integration); Sept. | 39* (Synthetic proparation); REP (Preparation); Sept. | 30* (Synthetic proparation); Sept. | 30* (Synthetic propa

Absolute stereochemistry

| 18304-75-4 CMPLIS Carbastc acid. [5-[[([28:35)-2-hydroxy-3-[([25)-2-methy]-3-(methy)sulrophy)-1-unopmony/]amino)-4-phenylbuty][(2-methy)propy))amino]sulfony]:]H-benzmidatol-2-yi]-, methy] ester (\$C1) (CA 10EX xMPL)

Absolute stereochemistry

183004-77-5 CAPLUS
Propanantde. #-[115.28)-3-[[(2-amino-6-benzothnazoly1)sulfony1](2-methylpropy1)amino]-2-hydroxy-1-(phenylmethyl)propy1]-2-methyl-3-(methylsulfony1)-. (25)- (9E1) (CA INDEX NAME)

Page 12

L4 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

- IT 183084-99-1P 183065-01-8P RL, RCT (Reactant); SPM (Synthetic preparation); PREP (Preparation); RACT
- Ri. SET (Recent): SM (Synthetic preparation): MET (Preparation): MET (Indicated): SMCT (Metallicity of the Metallicity of the M

iii 18309-01-8 CAPLUS (N Proparantide, N-{(15, 28)-3-{(1,3-benzodioxol-5-yl sulfonyl)(2-methylpropyl)amnol-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-(certhylpthio)-, (25)- (9C1) (CA | NBEL NAME)

Absolute stereochemistry.

L4 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry

REFERENCE COUNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

Page 13

L4	AKSWER 8 OF	18	CAPLUS	COPYRIGHT	2003 ACS
ACCE	SSION NUMBER:		199	9:671016	CAPLUS

DOCUMENT NUMBER: TITLE:

INVENTOR(S)

PATENT ASSIGNEE(S):

abandoned. CODEN: USXXAM Patent DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Engl 1sh

PATENT NO KIND CATE APPLICATION NO. DATE

SI. LT. LV. F1 US 2002111368 A1 20020615 US 6458785 82 20021001 US 2001-836443 20010418 US 6458785 PRIORITY APPLIE. INFO.:

US 1995-402287 82 19950310 MO 1996-US2684 W 19960307 US 1999-474052 A2 19950607 EP 1996-907135 A3 19960307 US 1999-451920 A3 19991201

OTHER SOURCE(S): MARPAT 131 - 286829

ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

183812-50-2 CAPLUS 1-Pyrnol Idina---

1838[2-50-2 CAMUS 1-Pyrrol I dinecctamide. N-[(1R)-2-[[(1S,2R)-3-[(1.3-benzodioxol-5-yl sul fonyl) (2-enthyl propyl) Jamino]-2-hydroxy-1-(phenyl nethyl)propyl [amino]-1-[(nethyl sul fonyl)methyl]-2-oxoethyl]- (9CI) (CA INDEX NAME)

183553-90-4P 183553-91-5P 183553-92-6F 183553-93-7P

RL. RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or respect)

(prepn. of amno acid hydroxyethylanino sulfonanides as retroviral protease inhibitors)

183551-90-4 CARUS

racock-90-4 CAPLUS
Carbanc actd. (1(8)-2-{((15.80-3-{(1.3-bentodioxol-5-y)sulfory))/(2-methyloroghianol-2-hydroxy-1-(phenylecthyl)propyl)astrol-1.
(nettyl thiobactyl)-2-oxoctyl)-. 1.1-disectylethyl ester (901) CA
MOCK MARY.

Absolute stereochemistry

L4 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

ABSTRACT:

ASSINGT.

Introduced the processing of the proce

IT 183553-89-1P 183812-50-2P | 11 ISSS 38-91- ISSS 35-92 or effector except adverse1; 80 (8h) legical R. M. Childhold activity or effector except adverse1; 80 (8h) legical R. M. Childhold activity or effector except adverse3; 80 (8h) legical study); 80 ff Preparation, ISSS (10cs) for species cuts, (crops, of anne act hybridocytism) and Isssessing activities; 30 isssessing activities

Absolute stereochemistry

- L4 ANSHER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)
- 183553-91-5 CAPLUS Carbanic acid. [(1R)-2-[[(1S.2R)-3-[(1.3-benzodioxol-5-ylsulfonyl)(2nethylpropy|lamino]-2-hydroxy-1-(phenylmathyl)propy|lamino]-1-((methylsul foryl)methyl]-2-oxosthyl]-, 1.1-dimethylethyl ester (9C1) (CA INDEX NME)

Absolute stereochemistry

Proparatide: 2-antino-H-[(15,28)-3-[(1,3-benzodroxol-5-ylsu)foryl)(2-nattylprogyl)antino]-2-tydroxy-1-(phenylsettyl)propyl]-3-(settylsulforyl)-, nonstydrochloride. (29)- (901) (CA INDEX NAME)

Absolute stemanchesister

●HC1

RM 183553-93-7 CAPLUS

CM Proparatide. N-[CLS.281-3-[CL3-benzed(oxol-5-ylsulfonyl)(2-methylpropyl)aminoj-2-hydroy-1-(pherylmethyl)propyl)-2[(chloroacetyl)aminoj-3-(cectyl)alfonyl-). (28)-(9Cl) (CA INDEX MANE)

L4 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

2

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 18 CAPILIS COPYRIGHT 2003 ACS (Continued) NO 1996-US283 W 19960027 NO 1996-US283 W 19960027 US 1998-2872 A 119900224 US 1999-307711 A1 1990510 US 2000-501265 A1 2000209 MARPAT 129:122867

OTHER SOURCE(S):

ABSTRACT:

Historically learness amino acid hydrocythyllamino soll formics copids. 1 (1
Historically learness) amino acid hydrocythyllamino soll formics copids. 1 (1
COSSIMER, etc., 12 - al.y.), azilly1, ally1 mostly1, arythmostly1,

Occlositylatiy1; 13 - al.y.), azilly1, ally1 mostly1, arythmostly1,

Occlositylatiy1; 13 - al.y., al.y., al.y., al.y., al.y., arythmostly1,

-18, hydrocythy1, allxocythy1; 22; 181 - al. (3 - al.y.), allynocythy0,

-18, hydrocythy1, allxocythy1; 0 x11; and 12; 0 x12 and 12; arythmostly1,

-18, hydrocythy1, allxocythy1; 0 x11; and 12; 0 x12 and 12; arythmostly1,

-18, hydrocythy1, allxocythy1; 0 x11; and 12; 0 x12 and 12; are groundly1.

-18, hydrocythy1, allxocythy1; 0 x11; and 12; 0 x12 and 12; are grown allynocythy0, allxocythy0, allxocyt

- II ILLIANS-No.-0 ILLIANS-NO.-0

Absolute stereochemistry

Page 14

L4 AVSNER 9 OF 18 CAPLUS COPYRIGHT 2013 ACS ACCESSION NUMBER: 1998:471469 CAPLUS DOCUMENT NUMBER: 129:122867

INVENTOR(S):

PATENT ASSIGNEE(S):

10-11/2007 Person
10-11/2007 P SOURCE

LANGUAGE: English FAMILY ACC. NIM. COUNT: 3

PATENT INFORMATI								
PATENT NO.	K1N0	DATE		APPLICATIO	NO.	DATE		
US S776971								
US 5770971	Α.	19983707		D 1995-47	4117	19950607		
CA 2215022 WD 9628465	AA.	19993919		CA 1996-22	LSUZZ	19963337		
WU 9628465	A1	19960919		WU 1996 - US	2683	19960337		
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	F1. 68. 68							
	LV. MD. NG	. PK. PN.	HN, HA	. NO. NZ. I	R., PT	. RO. RU.	50.	SE.
SG.								
	LS. MV. 50						œ.	GR.
	IT. LU. NO							
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AU 717598								
EP 81S124	A1	19980107		EP 1996-91	1230	19960307		
EP 815124								
	BE. CH. OE						PT.	1E. F1
CN 1183102	Α.	19980\$27		CN 1996-193	619	19960307		
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8R 9607625 RU 2174519		19990615		BR 1996-762	!5	19960307		
		20011010		RU 1997-118	523	19960307		
AT 229033 PL 184771	E	20021215		AT 1996-91	1230	19960307		
		20021231		PL 1996-327	2179	19960307		
NO 9704147								
US 5972989		19991026		US 1998-28;	272	19950224		
US 6063795		20000516		US 1999-307	711	19990510		
US 6214861	B1	20010410		US 2000-501	1265	20000209		
US 6407134	B1	20020618		US 2001-775	682	20010205		
PRIORITY APPLN	INFO.:		US	1995-402419	82	19950310		
			US	1995-392305	82	19950410		
				1995 - 474117				

14 AVSUER 9 DE 18 CARLUS CORVENIGNY 2003 ACS (Continued)

RV 18353-91-5 CAPLUS
OC Carbanic acid. (1(8)-2-(1(1)3-2-(1)3-benedonoid-5-yisul fonyl)(2-aethylsoygy) aaring)-2-bydrosy-1-(phenylaethyl jaropy) jarring)-1-(cethylsulfonyl)acidy)-2-audethyl)-1. 1.1-direthylsthyl ester (SCI)
(CA 10EC x NAVE)

L4 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

REFERENCE COUNT:

THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS (Cost (sued) PRICEITY AREA THEO

7 2003 ACS (Continued) US 1995-402287 82 19950310 US 1995-404052 A. 19950607 EP 1996-907135 A3 19960307 MO 1996-US2684 W. 19960307 MO 1998-80928 AI 19990519 US 1998-80928 AI 19991519 US 1999-451920 A3 19991201

OTHER SOURCE(S) -

MADONT 120 41411

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ABSTRACT

ASSTOCT: A stress of the property of the prope

- IT 183553-89-1P 183812-50-2P
 - RI. BKC (Biological activity or effector, except adverse): BSU (Biological study, unclassified). SPM (Symthetic preparation): TBU (Therapeutic use); BIOL (Biological study); PREP (Preparation): USES (Uses) (preps. of a
- (priejs, of amino acio flydrosystyvianino sairtonianto retrovirali pro-(priejs, of amino acio flydrosystyvianino sairtonianino sairtonianino

Absolute stereochemistry

Page 15

L4 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998.392091 CAPLUS DOCUMENT MARBER: 129:41411 TIRE: Propuration of gains ac

INVENTOR(S)

PATENT ASSIGNEE(S):

129-1413 Temperature of autor acid hydroxyethylasimo solfonadie retroviral protesse inhibitor fortena diarle 7, Decretanos, Grif, A.; Frestos, John H.; Vosper, Hobel L.; Stockti, James A.; Revidas, McChael C.; Schristians Frank, Barid L.; Grosser, Hobel L.; Schristians Frank, Barid L.; Grosser, Holistonad, Joseph Schristians Frank, Barid L.; Glob Serie & Co., USA
U.S., 99 po., Com., He-pert of U.S. Ser. Ho. 402,287, Abadonos.

DOCUMENT TYPE:

LANGUAGE: FAMELY ACC. NUM. COUNT:

PA	TENT	NO.		KINO	DATE		APPLICATION NO. DATE
US	579	9533		A	1998052	5	US 1995-474052 19950607
CA	221	5061		AA.	19960919	9	CA 1996-2215061 19960307
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EP 1258-91] A1 20221120 EP 2020-11356 R R: ATI BE, LO, 40 CK, KE, S. PR. 66, GR, IT. LL, LU, LV, F R: 1874-15, LT, LV, FT 10021221 Mps 1995-32278 Mps 1991-102 Mps 1991-102 Mps 1991-102 Mps 1991-102 Mps 1991-102 Mps 1991-102 Mps 1998-32887 Mps 1991-102 Mps 1998-32887 Mps 1991-102 Mps 1998-4952 Mps 1991-102 Mps 1991-49520 Mps 1 19970909 19980303 19980519

LA ANSWER TO DE TRI CARLUS CORVETCHE 2003 ACS. (Contributed)

183812-50-2 CAPLUS

RN 183812-50-2 CAFLIS

(I - Pyrrol nimeacle anide. N-{(1R)-2-{((1S,2R)-3-{(1,3-benzodrouol-5-yl uli fray)}12-eactry jpropy) lamino}-2-hydroxy-1-(phenylactry) lpropy) jamino}-1-{(methyl suli fony) methyl]-2-oxocthyl]- (SC) (CA 100CX MME)

Absolute stereochenistry

IT 183553-90-4P 183553-91-5P 183553-92-6P 183553.93.79

18655-93-79
R; KT (Bectach): SPN (Synthetic preparation): PRP (Preparation): RACT
(Bectact or respect)
(spect, of ation acid hydrocyclylamino sulfonamide retroviral process
(spect, of ation acid hydrocyclylamino sulfonamide retroviral process
(SSS-389-1 OPULS
Carthaet cacti, (Gib-2-((15-20-3-(1.3-bencotion)-5-ylaulfoy)))12enthylycopy) (amino)-2-hydrocy-1-(phoylacty)-lycopy) (amino)-1(referb) (SSS-399-1 OPULS)
(referb) (SSS-399-1 OPULS)
(SSS-399-1 OPULS)
(Referb) (SSS-399-

INCEY NAME)

L4 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 18353-91-5 CAPLUS
OF Carbains acid. [[R]-2-[[(1S,28)-3-[(1,3-benzodioxol-5-ylsulfonyl)]2-aethylcropyl)aarino]-2-hydroxy-1-(phenylnethyl)propyl)aarino]-1[(aethylsulfonyl)aethyl)-2-oxoethyl)-, 1.1-dinethylethyl ester (9CI) (CA
INCX NAME)

Absolute stereochemistry

183553-92-6 CAPLUS | RESSO-92-B CUPLUS | Proparant C 2-anno-N-[(15.28)-3-[(1.3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)anno]-2-hydroxy-1-(phenylmethyl)propyl]-3-(methylsulfonyl)-menohydrochloride. (28)- (901) (CA INDEX MANE)

Absolute Stereochemistry

IB3553-93-7 CAPL(S Proparainde, N-[15], S20-3-(11,3-berzodioxol-5-yisulfonyi)(2-methylpropy) annoja 2-hydroxy-1-(phanylmethylpropyi)-2-[(chlorocentyl)annoj-3-(methylsulfonyi)-, (28)- (501) (CA IMMEX NAME)

Absolute stereochemistry

L4 ANSMER 11 OF 18 CAPLUS COPHRIGHT 2013 ACS ACCESSION NUMBER: 1998.324825 CAPLUS DOCUMENT NUMBER: 129:16390

Preparation of substituted sulfonylalkanoylamino hydroxyethylamino sulfonanide retroviral protease TITLE

tinhibitors
Sikoraki, James A.; Betman, Gantel P.; Georescetzo,
Bary M.; Devadas, Balekudru; Freskos, John M.; Lu,
Hang-Fan; McDonald, Joseph J.
G. B. Seanle & Co., USA
U.S., 131 op.
CODN USDAM INVENTOR(S):

PATENT ASSIGNEE(S):

LANGUNGE: Patent
LANGUNGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KINO DATE APPLICATION NO. DATE US 5753660 A 19980519 US 1996-747357 19961113 PRICRITY APPLN. INFO: US 1936-747357 19961113 OTHER SOURCE(S): MASPAT 129:16390

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Page 16

L4 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

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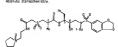
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1891-18-40-30 1811-18-47

Absolute stereochemistry

8N 191412-76-7 CARLIS
CN Proposantios. N-(15, 28)-3-[(1,3-benzodious)-5-ylsulforyl)(2-settly/involy)-lamioly-2-hydroxy-1-(phenylecthyl)propyl)-2-settly-13-[[2-[(2-(1,0-k5o-1-pyrrol)dinyl)-knyl]amioly-2-ousethyl)pulforyl]-. (25)- (9(1) (CL 100X; WHC)



ANSAER 11 0F 18 CAPULS COPYRIGHT 2013 MCS (Continued) 191412:78-9 CAPULS (Propunsion: High 125-8-9 CAPULS (Propunsion: High 125-8-9-14 (1.3-bencotiowal-S-ylsulforyl)); entity brough lamino) 2-3 procus-1-1 (pheny lenthy) (propy) 1-2-setby-1-3-([2-([2-(2-(4-cab(d-4-argor)-1-2-bencoty)) 1-2-bencoty)); forgli-1 (23): (9(1) (4-cab(d-4-argor)-1-2-bencoty)); forgli-1 (24): (9((CA INDEX NAME)

Absolute stereochemistry

191412-79-0 CAPLIS
Proparamide, M;{(IS, 28)-3-{(I,3-bencodioxol-5-y)sulfony)}(2-methy) rorgy] 1-mino]-2-hydroxy-1-(phmy|methy) progy];2-methy]-3-{(2-(4-morphol Iny)]-2-oxoethy][sulfony]-, (2S)- (SCI) (CA INTEX MANY)

 $\label{eq:constraints} \begin{array}{lll} 1914[2:80:3 & \text{CALLS} \\ \text{Propinante}, & \text{H-}(1S, 30:3-\{(1.3\text{-beroaction})-5\text{-yisulfroy})\ (2\text{-morthylorogy})-2-eethyl-3-\{(2\text{-oxo-}2\text{-morthylorogy})-2\text{-eethyl-3-}\{(2\text{-oxo-}2\text{-morthylorogy})-2\text{-eethyl$

Absolute stereochemistry

ANSMER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Cont 0xcpropyl]th10]-. ethyl ester (9C1) (CA INDEX NAME) (Cont inued)

Absolute stereochemistry

191412-87-0 CAPLIS
Proparamide, 3-(11H-benzinidazol-2-ylmethyl)su/1cgyl]-N-[(15,28)-3-[(1,3-benzidoxol-2-ylmethyl)su/1cgyl]-N-(15,28)-3-[(1,3-benzidoxol-2-ylmethyl)su/1cgyl]-2-sethyl-. (25)- (901) (CA 1MDER MAME)

191412-88-1 CAPLES Proparaside, N-[(15.28)-3-[(1.3-ben:odioxol-5-ylsulfory)]/(2-nethylpropy)aminoj-2-hydroxy-1-(oherylnethyl)propy]-2-nethyl-3-[(5-thiapolylnethyl)sulfory]-. (25)- (901) (CA IMDEX NAVE)

Absolute stereochemistry

191412-91-6 CAPLUS
Propanantide, N-(1(15-28)-3-(1(1.3-benzodicxol-5-y)su) forty)) (2-methyl propy)) amino) -2-hydroxy-1-(phenyl nethyl) propy)] -2-methyl -3-(2-pyridinyl) sul forty) - (25) - (9C1) (CA TMOEX NAME)

Absolute stereochemistry

Page 17

L4 AWSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

●HC1

191412-81-4 CAPUS
Propariatie. N-[115:28)-3-(-[1,3-benzodioxol-5-ylaul foryl]) (2nethyl propyl) anino]-2-hydroxy-1-(phenylnethyl) propyl]-2-nethyl-3-[(2-oxo-2phenylethyl) sul foryl]-. (25)- (9CI) (CA IMEX MME)

Absolute stereochemistry

 $\begin{array}{lll} 191412-62.5 & \text{CAPLIS} \\ \text{Propsing-life, } & \text{H-(1S.,38)-3-((1.3-benrodioxol-S-yl-sulfonyl))(2-oxthyl-gropyland-12-dydroxyl-1-(phenyl-nethyl-propyl)-3-f(2-(1.1-dioxido-4-thiosorphol-layl)-2-oxethyl-yl-yl-fonyl)-2-oxethyl-, (2S)- (9C1) & \text{CALBDEX} \\ & \text{CALBDEX} \\ \end{array}$

8) 19142-83-6 CAPUS CN Butanosc acid. 4-{(125)-3-{(15.28)-3-{(1.3-benzodiosal-5-ylsulfonyl)(2-methyl)propyl)amino]-2-hydroxy-1-(phenylmethyl)propyl)amino]-2-methyl-3-

L4 ANSHER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

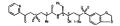
RW 191412-92-7 CAFLUS
CN Propamande, M-{135.28>-3-{(1,3-benzodioxo1-5-yigulfonyl)12-nethylpropyl}3-ai-{(13-bydroxy-1-(phénylmethyl)propyl}-3-{(13-bydroxy-2-(tydroxynethyl)propyl]sulfonyl]-2-nethyl-- (85)- (901) (0A IMBX MME)

Absolute stanarchemistry

191412-93-8 CAPLUS
 N. PRIDOTURROSCIAR, BESTY S.-{(CS)-3-{((1.5.28)-3-{((1.5.28)-3-{(1.5.28)-3

8H 191412-95-0 CAPLUS
CN Proparantide. N-{(15.28)-3-{(1.3-benzodiavol-5-ylsulfonyl)(2-acthylpropyl)anino}-2-hydray-1-(sheeplatethyl)propyl)-2-acthyl-3-{(2-axo-2-(2-gyr-inyl)ethyl)sulfonyl)-. (25)- (951) (CA. SMOX NAME)

L4 AVSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RV 191412-96-1 CAPLUS

ON Proparantie, N-(11.5.RV)-3-{(12.3-dhlydro-1.4-bercodroxin-6-y1)sul*fnyl}{2-ectlylroyyl}sartoj-2-ydroxy-1-(phrny)nettyl)propyl}s-2-ectlyl-3-{(12-ox-2-c2-yridisyl)ethyl]sul*fnyl}-, (25)- (91) (CA INDEX RAME)

Absolute stereochemistry

RV 191412-97-2 CAPLUS
CN Progressince. IN-(15.28)-3-(16-berzothrazolytsulfory1)(2methylprogy1)aminol-2-hydroxy-1-(phenylmethyl)progy1]-2-methyl-3-([2-oxo-2(2-pyr-idinyl-bethyl)sulfory1]-. (25)- (9E1) (CA. ISDEX NAME)

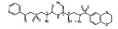
Absolute stereochemistru

RM 1912-994 CAPLIS

IN Propusation. Nr.(15.29)-3-(5-benoothlesoly/sulfony):(2-esthylr-3-([2-ese-2--2-y-ridiny)-bendy)-bendy-largely-. (25)- (90) (A 18002-8849)

Absolute strenocommistry.

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



 RW
 19143-03-3
 CAPLIS

 XW
 Proparamics. H-[CIS. 28)-3-[(6-benzothlazoly)sulfonyl)](2-enthylposyl)aminol-2-hydroxyl-1-(phenylmethyl)propyl)-2-enthyl-3-[[2-oxo-2-03-pyridinyl)ethyl]sulfonyl]-, (2S)- (9CI) (CA [MOEX NAME)

Absolute stereochemistry.

8N 19143-04-4 CAPLUS
CN Proparamice. N-(15.52)-3-(5-bencothiazolylsulfory)1)(2nethylaropyl)amino]-2-bydroxy-1-(phrylaethyl)propyl)-2-nethyl-3-[(2-oxo-2(3-pyridityl)ethyl |sulfory)]-. (25)- (901) (CA JIKEX NAME)

Absolute stereochemistry

88 19143-65-5 CAPLIS
CV Proparamids. N=(15.280-3-[[(2.3-dit)ydro-5-bencofurary)]:sulfony]](2-nethylropoy):anito):2-hydroxy-1-(phrylethyl):propy]]-2-nethylropy]-3-([(2-au-2-d-yyridinyl):ethyl]:sulfony]]-. (25)- (90) (CA INDEX NAME)

Absolute stereochemistry.

Page 18

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RV 191413-00-0 CAPLUS

(XP Proparamoe, NF (15, 28)-3-[((2.3-dihydro-5-benzofurany))sulfony)](2-methy propy) laming)-2-hydroxy-1- (phroxy)methy) gropy]-2-pethyl-3-[(2-au-2-(2-pyridiny))ethyl 3sulfony]]-. (25)- (9CI) CA (MMEX NAME)

inlute stereochemistry

W 1914]3-0]-1 CARUS

Proparantide, N-[(15.28)-3-[(1.3-benzodioxo)-5-y/sulfenyl)]2-methylproty)].amino]-2-hydroxy-1-(phenylmethyl)propy]-2-methyl-3-[[2-oxo-2-(3-pyriothyl)bethyl)]sulfenyl)-. (25)-. (3CL). (CA INDEX MME)

Absolute stereochemistry.

81 1914]3-02-2 CAPLIS

OF Proposestor. Fr (15, 3t)-3-[((2,3-ditydro-1,4-bezoodioxin-5-y1)sulfory)](2-entity)popy) Jamino)-5-tylydroy)-1-(phety) propy)]-2-entity]-6-(1-yridroy)-1-(phety)-

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

PN 1914/3-05-6 CAPLUS
Proparantide, M-(105.2R)-3-[(1,3-benzodioxal-5-yl-sul-fonyl)(2-nethyl)ropyl)-2-insthyl-3-[(2-exa-2-(4-pyrodinyl-bethyl-3)-(65)-(9C)) (CA IRROX MWE)

thenlyte stanochonistes

RN 1914/3-07-7 CAP(US
CN Proparanties . N: (115.20)-3: ([(2.3-dihydro-1.4-beroadroxin-6-y1)sul fony1](2-mcthy)progy)3minoj-2-thydroxy1-1-(phenylmethy1)progy)1-2-mcthy1-3: ([(2-oxo-2-(4-pyridiny1)ethy1]sul fony1)-. (25)- (9C1) (CA IMDEX NME)

plute stereochemistry.

RV 191413-08-8 CAPLUS

CN Programmice. Rr[1(5,29-3-((6-benzethnazoly)sulforyl))(2-methylprogyl)anino)-2-hydroxyl-1-(phenylmethyl)progyl)-2-methyl-3-[[2-axo-2-(4-pyridinyl)ethyl]sulforyl]-. (25)- (901) (CA LMBEX NME)

88 1914;3-09-9 CARUS
OF Propagation, H-(15, 39)-3-[6-benochtaply1ssifony])(2setty)propy1)asino)-2-hybroy-1-(phenylenthy1propy1)-2-setty)-3-[[2-aux-2(4-pyndiny1)-thy1]ssifony1-, (25)- (9C) (CA IMSEX NME)
Absolute stereochemistry.

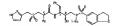
RN 191413-10-2 CAPLUS
CN Proparamide, N-[CLS_2R-3-[[C_3-d-thydro-5-benzofurary]]sulfary]](2-methylprogyl)anino]-2-hydroxy-1-(sherylmethyl)progyl)-2-methyl-3-[[2-oxo-2-(4-pyridinyl)ethyl]sulfary]]-, (25)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

19143-11-3 CAPLUS
 Propananide, IH-(TLS, 28)-3-[(12.3-dihydro-1.4-benzodioxin-6-y) sair fony1)[12-settly|ropy1) annol-2-hydroxy-1-(obenylnetby) lypropy1-2-settly1-3-[(lik-pyrazol-3-y)lnethy1)sul fony1]-, (25)- (9CI) (CA 1NDEX NWE)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RW 191413-15-7 CAPLUS DV Proparamide, Nr-[(15,38)-3-[((2,3-dihydro-1,4-benzodioxin-6-yl)sulfonyl](2-eethylorogyl)amino]-2-hydroxy-1-(phenylsethyl)progyl]-2-eethyl-3-[(2-oxo-2-phenylethyl)sulfonyl), (25) (90) (CA IMDDX IMME)

Absolute stereochemistry.

191413-15-8 CAP.US

M Propiamende. N-[135:28]-3-[(6-benzothiazolytsul fory1)(2-methylpropy1)amino]-2-hydroxy-1-(phenylnethyl)propy]]-2-methyl-3-[(2-oxo-2-phenylethyl)sul fory]]-. (23)- (90) (CA. IMCE. MME)

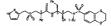
Absolute stereochemistry

RN 191413-17-9 CARLUS N Proparamide. N-(15.28)-3-[(5-benzothiazoly) sul fory1)[2nethy]orcqy1)annol-2-hydroxy-1-(phenylmethy)propy1]-2-methy1-3-[(2-oxo-2phenyl ethy)]sul fory1]-. (25)- (91) (CA INDEX MME)

Absolute stereochemistry

Page 19

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 19143-12-4 CAPLUS
ON Propansaride, N-(CLTS, 20)-3-((6-benzothiazoly)sulfory1)(2-nethylropy1)anino)-2-hydroxy1-(phenylnethyl)propy1)-2-nethyl-3-((IH-prazol-3-ylnethyl)sulfory1)-, (25)- (9C1) (CA IMDEX MANE)

891 191413-13-5 CAPLUS CN Proparentee. N-(1S.28)-3-[(5-betzothiazoly/sulforyl)(2-methylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(IH-pyrazol-3-ylmethyl)sulforyl]-. (25)- (9(I)) (CA INDEX AME)

Absolute stereochemistry

8N 191413-14-6 CAPLUS
CN Proparisande. N-[(1S.28)-3-[[(2.3-dih)dro-5-benzofurary1)sulfony1]{2-extyl-poyrazof-3-ylnethy1)sulfony1]-. (25)-- (9C1) (CA 1MOEX MANE)

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



191413-18-0 CAPLIS
 Programatide. N. [CIS.28)-3-[[(2.3-dh)ydro-5-benzofurary1)sulfory1](2-nethylprogr) annin]-2-hydrosy-1-(pherylnethyl)progr)1-2-nethyl-3-[(2-on-2-pherylethyl)sulfory1]-. (25)- (3CI) (CA (NOCX NAKE))

Absolute stereochemistr

W 1914(3-19-1 CAPLUS ON Programmide. N-(15.28)-3-[((2,3-dithydro-1.4-benzodioxin-6-yl):sul*lonyl](2-setlylprogyl):sainol-2-hydroxy-1-(plenyllectyl):progyl)-2-sethyl-3-(6-thiazolylnectyl):sul*fonyl]-. (25)- (9(1) (CA INDEX MME)

Absolute stereochemistry.

RN 191413-20-4 CAPLIS
CN Proparamide. N-[CIS_2R)-3-(G-benzothiazolylsulfonyl)(2-actlylpropyl)anno)-2-bydroxyl-(cherylnethyl)gropyl)-2-actlylroxyl)sulfonyl)-. (25)- (9CI) (CA IMDEX NAME)

William Co

RN 191413-22-6 CAPLUS

ON Programatice, N-(15.28)-3-(15-benrothiazoly/sulfonyl)(2-methylpropyl) lamino}2-bydroxy-1-(phany heethyl)propyl)-2-methyl-3-(15-thiazoly)lamino}1-(25)-(9CI) (CA. IMDEX MAKE)

Absolute stereochemistry

RN 191413-24-8 CAPLUS
CN Propasanide. N-[(15,28)-3-[((2,3-dihydro-5-benzofuranyl);ullfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(5-thiazolylmethyl)sullfonyl]-. (25)- (9Cl) (CA INBEX MME)

Absolute stereochemistry.

88 191413-26-0 CAPLUS
CN Proparamice. H-(ILS.88)-3-[[(2.3-dithydro-1.4-benzodioxin-6-y])sulfonyl](2sectlyloropyl)samoj-2-hydroxy-1-(phrnylmithyl)propyl)-2-nethyl-3-[[(2-(2pyridinyl)ethyl]sulfonyl]-. (ZS)- (SCI) (CA IMBEX NME)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

 RN
 191413-36-2 CAPLUS

 DN
 Proparation

 F-(15.58)-3-[(1,3-bensociosol-5-y) sul fonyl) (2-setby) porcyl) ramoj-2-bydroy-1-(phenyl)ectby) porcyl) -2-secbyl-3-[[2-(3-pyridinyl)ectby]] sul fonyl]-. (25)- (9Cl) (CA IMSEX NAME)

Absolute stereochemistry.

RM 191413-38-4 CAPUS

ON Propanamie, R-[(15.28)-3-([(2.3-dh)ydro-1.4-benzodoxin-6-y1)sul fary1)(2-actby) regy(1)-arico)-2-(phrey lnethy1) progy(1)-2-actby1-3-[(2-(3-pyrtdiny1)ethy1]sul fory1)-. (25)- (9C1) (GA 1MSE MME)

Absolute stereochemistry

RM 191413-40-8 CAPLUS DP Proparamide: N-(15.581-3-[(6-binesthiasoly)sulforg))(2-nethy)ropy)haniro]-2-bydrosy-1-(phenylrasth))propy)1-2-nethyl-3-[[2-(3-pyridiny)lethyl]sulfory]]-, (25)- (901) (CA 1890X NAME)

Absolute stereochemistry.

Page 20

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

BN 191413-29-3 CAPLIS
CM Propenance. N-[115.20-3-[(6-benzothiazoly)sul fonyl)](2methylpropyl hanno]-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-[[2-(2pyridinyl)ethyl]sul fonyl]-, (2S)- (9C1) (CA INGEX MANE)

Absolute stereochemistry.

69 191413-31-7 CAPLUS CN Progenamide. Mr (1(5, 28)-3-[(5-biratothiazoly) sul foryl) (2-methyl propyl) aninol-2-hydroxy-1-(phenylmethyl) propyl)-2-methyl-3-[[2-(2-pyridny) bethyl] sul fonyl]-. (25)- (3C)- (CA | NGCK MWE)

Absolute stereochemistr

RI 19143-34-0 CAPLUS

ÄPropanastide. H-(115,28)-3-([(2,3-dit)ydro-5-benzofurary))sulfory]](2natry[ropy])-banno]-2-hydroxy-1-(phenylacty)]propy]-2-nethyl-3-[[(2-(2py*idiny))-bthyl]]sulfory]]-, (25)- (9CI) (CA]NOEX NOES

Absolute stereochemistry.

L4 ANSWER 11 OF L8 CAPLUS COPYRIGHT 2003 ACS (Continued)

Ril 191413-43-1 CAPLUS
ON Propagantide, NE(115,28)-3-[(5-benzothiazoly)-sulfonyl)(2nethylprogyl)amino]-2-hydroxy-1-(phenylmethyl)progyl]-2-methyl-3-[[2-(3pyridinyl)ethyl]sulfonyl]-, (25)- (9C) (CA IMEX MANE)

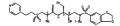
Absolute stereochemistry

191413-45-3 CAPLLS
 Propanamole, H. (1S. 28)-3-[[(2.3-dihydro-5-benzofurlaw)] sull foryl](2-nethyl)rpogyl)-2-indrouy-1-(phenylmethyl)progyl]-2-methyl)sull foryl]-1. (25)- (9CI) (CA INSEC MME)

Absolute stereochemistry

 BI
 191413-47-5
 CAPLUS

 ON
 Propertain de.
 In-(115.28)-3-[(1.3-benzod(not)-5-y)sul fony))(2-netby)propy)]-2-netbypropy) Javino-3-(phynylethy) Javino-1-2-(phynylethy) Javino-1-3-[[2-(4-pyrid(nyl)-6thy)]-3-[(3-6thy)-3-(6thy



No. 19413-49-7 Cortos CM Propenside, H-(18.28)-3-[[(2.3-dihydro-1.4-benzodioxin-6-yl)sulfonyl](2-methylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[2-(4-pyridinyl)ethyl)sulfonyl]-. (25)- (9Cl) CA INDEX MME)

Absolute stereochemistry.

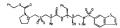
RH 191413-50-0 CAPLUS
CN Proparantide, Nr (15.28)-3-[(6-benzothi azoly)sulfonyl)(2methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-[[2-(4pyridnyl)ethyl]sulfonyl)-. (25)- (9C1) (CA [MDEX MME)

Absolute stereochemistry.

8W 19143-51-1 CAFLUS
CP Proparatide. H-f(15,28)-3-[(5-benzothiazoly/su/forpyl)(2sethyl-propyl)asinoj-2-hydroxy-1-(phray herthyl-)propyl)3-2-sethyl-3-[[2-(4pyr/distyl)-ethyl]sulforyl]-. (ZS)- (9CI) (GA 186EX MANE)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RW 1914/3-58-8 CAPLUS
DY 1-Pyrrol distinctionally is acted. 2-{[[(25)-3-[(15,28)-3-[(5-berezothised)) is sulf fory)](2-methylpropy) sm mol-2-hydroxy-1-(pheyl nethyl) propy) [sam mol-2-methyl-3-oxopropy) [sulfory] phenylmethyl (seter. (25) - (30) [100 (Ansitto Methyl)]-phenylmethyl (seter. (25) - (30) [100 (Ansitto Methyl)]-phenylmethyl (seter. (25) - (30) [100 (Ansitto Methyl)]-

thenly a standard at an

RM 19143-61-3 CVP.US

21 1-Pyrrol interactionylic acid, 2-([([25)-3-[([15:28)-3-[([15:28)-3-[([15:28)-3-[([15:28)-3-[([15:28)-3-[([15:28]-

Absolute Stereochemistry

RM 191413-62-4 CAPLUS

N Proparatide, N=(15,28)-3-{(1.3-bercodioxol-5-ylsulfony))(2-methylpropyl)alifon)-2-hydrocy-1-(phenylmethyl)propyl)-2-methyl-3-[(3-cwo-3-(1-phenzatinyl)propyl)aulfonyl)-(25)-(90) (CA INDEX NWE)

Absolute stereochemistry

Page 21

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 191813-55-3 CAPLUS

ON Proponentide. NF-(15.28)-3-{(2.3-dithydro-5-benzofurany)|sulfony|](2methylpropy)|amino|?-2-hydroxy-1-(phenylmethyl)boropy]}-2-methyl-3-{(2-(4pyridinyl)ethyl]sulfony|]-, (2S)- (9CI) (CA INDEX MAME)

Absolute stereochenistry

89 191413-56-6 CAPLUS
31 -1-Yrroll rdinecerboury lic acid. 2-{[[(25)-3-{[(15,20)-3-{[(2,3-dillydro-1,4-better) pirtop) | barling}-2-better) | better fixes -9-yl toal froy | (2-betty pirtop) | barling}-2-betty -1-bourprop | barling}-2-betty -1-bourprop | barling|-2-betty -1-bourprop | barling|-2-betty -1-bourprop | barling|-2-betty -1-betty -1-

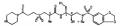
Absolute stereochemistry

NN 19143-57-7 CARUS

(II 1-Pyrrol1dinecarbox)1c acid. 2-[[(25)-3-[[(15,28)-3-[(6-benzohiazoly) sai froy] 1/2-ectbylpropy] sainto]-2-hydroxy-1-(phry leettyl)propy] sainto]-2-ectyl-3-oucpropy] sainto]-3-ectyl-3-oucpropy] sainto]

Absolute stereochemistry.

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



6W 191413-61-6 CAPLUS CN Proparante, N-(1S.28)-3-[E(2,3-dihydro-1,4-bencodoxin-6-y)3su1fosy1](2-nethylpropy)1amino]-2-hydroxy-1-(phenylmethyl)propy)1-2-nethyl-3-[(3-oxo-3-(1-phenx thyl)propy)]pul fosy)]-, (ZS)- (SCI) (CA JMSEE NME)

Absolute Stereochemistry

RM 191413-65-7 CAPLUS

ON Proparisande. N-[LIS 28)-3-[(6-beroothlazoly/sulfonyl)(2-nethylpropyl)amnol-2-hydroxy-1-(phenylnethyl)propyl]-2-nethyl-3-[[3-oxo-3-(1-phenezinyl)propyl]sulfonyl]-. (25)- (9C1) (CA IABLE NAME)

Absolute stereochemistry.

RN 191413-66-8 CAPLUS CRIS (A)-3-(16-benzothrazolylsulforyl)(2-methylpropyl)asino)-2-hydroxyl-1-(phrnylmethyl)propyl)-2-methyl-3-([3-oxo-3-(1-pipereznyl)propyl)sulforyl]-. (2S)- (9C1) (CA BOEX NUME)

Invest-or-9 CAPLIS
Proparamide. N-[(15.28)-3-[(12.3-dihydro-5-benzofuranyl)sulfonyl](2methylpropyl)amno]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[3-axa-3(1-piperazinyl)propyl]sulfonyl]-. (25)- (9Cl) (CA_INDEX_NME)

Absolute stereochenistry.

1914(3-68-0 CAPLUS Proparairds .3-((3-(12-arinocthyl)anino)-3-oxopropyl)salforyl]-H-((15.20-3-((1.3-bezzodioxol-5-ylsulfonyl)(2-aethylpropyl)anino]-2-hydroxy-1-(phorylnothyl)propyl)-2-aethyl- (25)- (9(1) (CA (MMEX MAME)

191413-69-1 CAPLUS
Propinsinde: 3-([3-(2-aminoethyl]anino]-3-axippropy] [sull forlyl]-N-[(15, 28)
3-([(2-3-dityldyrol]-4-benzodioxin-6-yl)-sull forlyl](2-eethyl propyl)-anino]-2-hydroxy-1-(phenyl methyl) propyl)-2-methyl-(25)-(90) (CA-1000X-8048)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

5N 191413-73-7 CAPLIS
CN Proparamids. N-(15.28)-3-[[(2.3-dihydro-1.4-bereadtoxin-6-y1]su\fory\](2-ethylpropy)\]amn\]2-hydray-2(hydroxyetby\)propy\]3-[(3-hydray-2(hydroxyetby\)propy\]3-((3-hydray-2-

Absolute stereochemistry

191413-75-9 CAPLIS
Propunatide, M-(15,28)-3-{(6-benzothiazolylsulforyl)(2methylpropyl)annol-2-hydroxy-1-(phenylnethyl)propyl]-3-{(3-hydroxy-2(hydroxyecthyl)propyl]sulforyl]-2-methyl-, (25)- (9C1) (CA INDEX NAME)

Absolute stereochemistry

191413-77-1 CAPUS
Proparation, R-(CLS_2R)-3-(C5-betworthiazoly)sul foryl)(2nethylpropyl)sainol;2-hydroxy-1-(phenylnethyl)propyl);3-((3-hydroxy-2(Aydroxynethyl)propyl)sul foryl]-2-eethyl-. (25)- (9Cl) (CA BIOEX AME)

Absolute stereochemistry

Page 22

191413-70-4 CAPLUS
Propiesanide. 3-[(3-(2-esinnectry))asning)-3-exopropyl]sulfonyl]-N-((15.28)3-[(6-benzothrazoly) sulfonyl)(2-esthylpropy)]sulfonyl-2-hydroxy-1.
(phrylnethyl)propyl)-2-restryl-- (25)- (9(1) (CA)IRDX MME)

RV 191413-71-5 CAPLUS
CN Programmide. 3-[63-{2-aninoethy1)asino}-3-exopropyl.jaulforyl]-M-[(15.2R)-3-(65-exothatacoly)asinforyl)2-nethyl.propyl)asino}-2-hydroxy-1-(phonyloethyl)propyl]-2-nethyl-. (25)- (901) (CA (NOEK MANE)

Absolute stereochemistry

RV 191413-72-6 CAPLIS

ON Proparamide: 3-([3-1(2-aminoethy1)amino]-3-oxopropy1]sulfony1]-N-[(15.28)-3-[(12.3-dihydro-5-benzofurary1)sulfony]]2-aethylorosy-1-(phenylnethy1)propy]]-2-aethyl-rosy-1-(phenylnethy1)propy]]-2-aethyl-rosy-1-(5)-(5)1 (OL 100EX NMC)

Ahsolute stereochemistry

L4 AMSHER 11 OF 18 CAPLUS COPYRIGHT 2013 ACS (Continued)

8x 191413-79-3 CAPILS

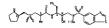
N Proparamide. R-[12.52-3-[(12.3-dihydro-5-benrofurany]]sulfory][2methyl propyl)amino)-2-hydroxy-1-(phenylmethyl)propyl)-3-[(3-hydroxy-2(hydroxymethyl)propyl]sulfory][-2-methyl-, (23)- (81)- (G. 180EX MNEX)

RN 1914]3-82-8 CAPLUS (N Proparamide: M-{III.28?-3-[[(2.3-dihydro-1.4-bencodloxin-6-y1)sulfory]](2-actly)r-3-[(2.3-2-bydroxy-1-(phery inethy1)propy]-2-actly)r-3-[((28)-2-pyrrollidinylmethy1]sulfory]]-. (25)- (9CI) (CA INDEX NAME)

Absolute Stereochemistry

78 191413-86-2 CAPUS
ON Programmide. N-(15.28)-3-((5-benzothiazoly)sulfory1)(2-methy)progy1atrios/2-bydroxy-1-(obley)settly1)progy1]-2-methy1-3-([(28)-2-pyrrolidiny)methy1)sulfory1]-. (25)- (9CI) (CA IRDEX NAVE)

Absolute stereochemistry.



89 191413-88-4 CAPUS (N Propananie, N-[(15.29)-3-[((2.3-dh)dro-5-benzofurany))sulfory)](2methyloropy) lamino)-2-hydroxy-1-(phetylnethyl)propy]-2-methyl-3-[((28)-2pyrrolidinylmethyl]sulfory)]-. (25)- (901) (CA INDEX NAME)

Absolute stereochemistry

8h 191414-00-3 CAPLUS
10. 1-19renatinecerbosylic actd. 4:(3=(1(25)-3-(1(15,28)-3-(1,3-benoodropo)-5-ylsuffron)/(2-eethyl-propyl-benino)-2-bydroxy-1-(phey-leethyl-propyl-benino)-2-eethyl-3-oscpropyl-bydroxy-1-copropyl)-1.1.dimethyleethyl-oscer
(9C1) (CA INDEX MANUE)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-8

RN 207665-80-4 CAPLUS

ON Prognamatic. Nr. (15. 20)-3-((1.3-benzodioxol-5-y-)sul fory)1)(2-methylorgoly)lamiol-2-hydroxy-1-(phenylmethyl)propy1-3-{(IM-initiazol-4-ylnethyl)propy1-3-{(IM-initiazol-4-ylnethyl)propy1-2-methyl-2-methyl-1. (25)-, mmo(trifluoraccetate) (salt) (%C) (KL NRCK AME)

OM 1

CRN 191412-84-7 CHF C29 H38 H4 C8 S2

Absolute stereochemistry

CM 2 CRN 76-05-1

F-{--C02H

RM 207666-81.5 CAPUS

Proparamide. N-(1S.22)-3-(1.3-bentodiool-5-ylsulfonyl)(2-nethylpropyl)samoj-2-phdroxy-1-(phenylmethylpropyl)-2-nethyl-3-([H-gyrazol-3-yhectyh]sulfonyl)-. (25)-. monotorifluoroacesate) (salt) (9C) (CA | MOCK MOCK)

Page 23

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)
PAGE 1-A

PAGE 1-8

RW 191414-06-9 CAPLUS

(N 1-hjeeratinecarboxylic acid, 4-{[[(25)-3-[[(15,28)-3-[(1.3-bentodroupl-5ylullforyl)/42-enthylpropyl yannoj-2-hydroup-1-ophenylmethylpropyl Jannoj-2-enthyl-3-oxopropyl Joulforyl Jocetyl)-. 1.1-disethylethyl ester (901) (CA MOX AMP)

asolute stereochemistry.

1-8:0 PAGE 1-A

L4 AMSHER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) OH 1

CRN 191412-85-8 CMF C29 H38 N4 G8 S2

Absolute stereochemistry

CH 2

CRN 76-05-1 CNF C2 H F3 02

98 207686-82-6 CAPLIS CN Proparamide. M:(LIS.80)-3-(II.3-berupothosol-5-yisulfory))(2nethylpropyl)aminoj-2-hydroxy-1-(pherylnethyl)propyl)-2-methyl-3-([IHpyrazol-4-yhethyl)sulforyl)- (ZS)-, monot(rifluoroacetate) (salt) (9C1) (ZA 190CK NME)

.

CRM 191412-86-9 CMF C29 H38 N4 O8 S2

Absolute stereochemistry

CM 2

- 90 207686-83-7 CAPLUS

 OP Proparation. N-(15.28)-3-(11.3-benzodiaxol-5-ylsulfory))(2nethylpropy) anino]-2-bydroxy-1-(phenylmethyl)gropy)-2-nethyl-3-([(28)-2pyrrolidnylmethyl]sulfory)]-, (25)-, norottrifluoroxcetate) (selt) (9C1)
 (CA NOEC MHC)
 - CH 1
 - CRN 191412-90-5 CHF C30 H43 H3 OB S2

- CH 2
- CRN 76-05-1 CNF C2 H F3 C2
- F-C-002H
- RW 207685-84-8 CAPLUS
 CW Propanantide, N-[(1S.2R)-3-[(1.3-benzodioxol-5-ylsulfonyl)(2-
- L4 AKSWER 11 OF 18 CAPLUS COPYRIGHT 2013 ACS (Continued) methylpropyl Jeannol-2-hydroxy-1-(phenylmethyl)propyl Jeannol-2-methyl-3-oxopropyl jester (9(1) (CA INDEX MAME)

Absolute stereochemistry

183005-01-8 CAPLUS
Proparamide: N+((1S, 28)-3-((1.3-berozof) oxp1-5-y1su1 fony1)/(2-methy1 propy1) amino]-2-hydroxy-1-(phery1 methy1) propy1]-2-methy1-3-(methy1 hino)-. (25)- (9(1) (O/ 1802X MME)

191412-54-4 CAPLUS
1-Pyrrol1dinecarboxy1sc end. 2-[[[(3):3-[[(15:20)-3-[(1.3-benzediowo]-5-]])]]
7-byrol1dinecarboxy1sc end. 2-[[((3):3-[[(15:20)-3-[(1.3-benzediowo]-5-]])]]]
2-asthyl-3-oxogropy1su1foyr]]-asthyl]- phenylacthyl ester. (25)- (9(1):0.6-1)[[(3):40]-3-

Absolute stereochemistry.

191413-92-9 CAPLES
Proparation. N-[LIS_20]-3-[(1,3-bevecoficuol-5-ylsulfonyl)12nethyl props)13mio-j2-hydroxy-1-(phonylaethyl)props)1-2-nethyl-3-[[2-(2pyridinyl)ethyl]thio]-. (25)- (9CI) (CA IMBEX MAME)

Page 24

- L4 ANSHER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) aethylpropyl Jaming 1-2 hydroxy-1-(phanylbethyl) propyl 1-2 hechyl-3-[((25)-2-pyrrolldinylhethyl])-1 ((25)-2-noto(trifluoroacetate) (salt) (OCI) (CA INSEC NVEC)
 - CH 1
 - ORN 191412-89-2 ONF C30 H43 N3 OB S2

Absolute stereochemistry.

- OH 2
- CRM 76-05-1 CMF C2 H F3 02

IT		183005-01-8P	
	191413-92-0P	191413-94-29	191413-98-6P
		191414-05-SP	
	191414-09-2P	191414-10-5P	191414-11-6P
	191414-12-79	191414-13-8P	191414-15-0P
	191414-18-3P	191414-21-8P	191414-24-1P
	191414-26-3P	191414-27-4P	191414-28-5P
	191485-19-8P	191486-20-1P	207686 · 74 · 6P

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

88 191413-94-2 CAPLUS

N Programming. N-1(15.28)-3-(11.3-benzodioxol-5-yisu) fory) (12methyl progry) aming)-2-tydroxy-1-(phrny letthyl)progr))-2-eethyl -3-([2-oxo-2[[2-(1-pyrrol idinyl)bethyl]anino]ethyl]thio)-. (25)- (9C)- (CA INDEX MME)

[9]413-98-6 CAPLIS
1-Piperaxinocarboxylic acid. 4-(3-([(25)-3-([(15,28)-3-([1,3-bercodinol-5-]) sulfrop))2-entity)-3-oxopropy)3-inio)-2-bytroy-1-(pheny-inethyl)gropy)3-inio)-2-bettyl-3-oxopropy)3-inio)-1-oxopropy)3-, 1.1-dinethylethyl ester (9C1) (CA INEX MAX)

L4 ANSMER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1.8

191414-04-7 CAPLUS
Proparamide: H-(15, 28)-3-[(1,3-bertzodioxol-5-y1sulfonyl))(2nethylpropyl)arino]-2-hydroxy-1-(phenylnethyl)propyl)-2-nethyl-3-[[2-(4morphol hryl)-2-oxoethyl]thio]-. (ZS)-. (9CI). (CA. HIDEX. NAME)

Absolute stereochemistry.

191414-05-8 CAPLIS
1-PiperaLinecarboxy 11c acid. 4-[[(ZS)-3-[(1S, 28)-3-[(1.3-benzodiosol-5-yizulfory)]-2-cetty)-propy] jaminoj-2-hydroxy-1-(phry leethy) propy] jaminoj-2-nethyl-3-oxopropy] [thiojacety]-1. 1.1-dimethylethyl ester (901) (CA
IMDEX MMP)

Absolute stereochemistry.

L4 ANSAER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry,

191414-12-7 CAPLUS
Proparaside: 3-E(11b-betz)midazo1-2-yimetlyi)ithio]-M-E(15.28)-3-E(1.3-betz)midazo1-2-yimetlyi)ithio]-2-hydroxy-1(phenylmethyi)propyi]-2-nethyi-, (25)- (90) (CA IREEX MARE)

Absolute stereochemistry

 $\label{lem:continuous} $$191414-13-8 $$CAPULS$$ $$Proparliantee. $$M_{112,28}-3-\{(1.3-benzodioxol-5-ylsulfonyl)(2-methyl)propyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-{(5-thizzolylmethyl)thio]-. (ZS)- (9CI) $$(A IMEX MAME)$$$

Page 25

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

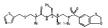
PAGE 1-B

191414-07-0 CAPLIS
Proparantide, 8-(115.28)-3-(11.3-benzodtoxol-5-y1sulfory1)(2methylpropy1)amnol-2-hydroxy-1-(phenylmethyl)propy1)-2-methyl-3-(12-oxo-2phenylethyl)thino]-, (23)- (901) (CA INDEX INME)

191414-99-2 CAPUS
Proposende. #-{(15.28)-3-{(1.3-benzodiovol-5-ylsulfonyl){2-methylpropylasinoj-2-bydroxy-1-chlenylmethyl)propyl}-3-{(1H-inidazol-4-ylmethyl)thto]-2-methyl-. (25)- (9Cl) (CA 1MDEX NME)

| 1914]4-10-5 CAPLUS | Propinseide. H-(15.2R)-3-E(1.3-benzodioxol-5-ylsulfonyl)(2-nethylpropyl)anton-3-2-hydroxy-1-(ohenylmethyl)propyl)-2-nethyl-3-E(IM-pyrazol-3-ylmethyl)throl-. (2S)- (9Cl) (CA (MOEX NAVE)

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



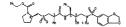
1914;4-18-3 CAPLUS
1-Pyrrol Idinecarboxy is c. ocid. 2-[[[(25)-3-[[(15,28)-3-[(1,3-benzod toxol-5-)]
7] 103 [0xy](12-aectly [propy]) 2ain(x)-2-hydroxy-1-(phery hechyl horpoy] 3ain(x)-2-aectly]-3-oxoproxy/ [[thio jeethyl]-, pheny inchiy] cster. (28). (9(1) (CA MDEX MAN).

Absolute stereochemistry

RV 191414-21-8 CAPLUS

N 1-typrol intinecerboy/1c actid. 2-([[(25)-3-[[(15,28)-3-[(1,3-benzodioxol-5-yisuffory)]-(2-extty/jeropy)]-banino}-2-extty/-2-oxpyropy/jsuffory)]-penylinectry/ exter. (28)- (9C1)
(CA 108CE NNE)

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



8W 191414-24-1 CAPLUS CM Propamantée, N-(CLS,2R)-3-[(1,3-benzedioxol-5-ylsulfenyl)(2-methylpropyl)aminol-2-hydroxy-1-(phenylmathyl)propyl)-2-methyl-3-(2-pyridinylthio)-. (23)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

88 191414-26-3 CAPUS

On Philodromocolide, nethyl 5-5-(CS)-3-(((1.5.26)-3-((1.3-benzolioxy)-5-) Juli (nor)) (2-hetyloroxy) (2-hetyloroxy) (2-hetyloroxy) (2-hetyloroxy) (2-hetyloroxy) (2-hetyloroxy) (3-3-0-(1-hetyloroxy)-6-hetyloroxy) (3-3-0-(1-he

Absolute stereochemistry.

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191485-19-8 CAPULS
Propriamide. 8-[3-[(1.3-benzodioxol-5-ylsulfory)](2-methylpropyl)amino}-2hydroxy-1-(phraylmethyl)propyl]-2-methyl-3-[((2-phrayl-1.3-dioxan-5yl)methyl[bthio]- (\$(\$(15.28))]-(partial)- (9(1)- (04.100EX-NME)-

191486-2)-1 CAPUS
Propanande. N:[3-[(1.3-bezzodroxol-5-ylsulfonyl)(2-methylpropyl)asnno]-2-hydroxy-1-(phnylmethyl)propyl]-2-methyl-3-[((2-phnyl-1.3-dioxan-5-ylbethyl]sulfonyl]-. [5[\$131.20]]-[partial]-. (\$C1). (OA INDEX MAME)

207686-74-6 CAPLUS
Propamaride, N-(15.2R)-3-(1.3-benzostova)-5-ylsul fonyl)(2methylpropyl)amno]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[2-[[2-(4-morphol hyl)]-thyl]amno]-2-osoethyl][tho]-, (25)- (9C) (0A IMEX

Absolute stereochemistry

Page 26

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-8

191414-27-4 CAPLUS
0-Riboforanceside. sectly1 5-{{(25)-3-{((15,28)-3-{(1,3-bentodiova)-5-y)sinfory}12-settly1propy}1}sanso}-2-Rydrooy-1-cphenylectly1)propy}]sanso}-2-settly1-3-oxporopy]san1fory13-5-denoy-2,3-0-(1-settly1etly1)deno)- (9C1)
CCL MIXIX MINIOR

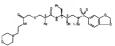
PAGE 1-A

PAGE 1-8

191414-28-5 CAPLUS
Proparantide. M-{(1S.28)-3-{(1,3-benzedition)-5-y1-sul-fonyl)}(2methylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-3-{[(3-hydroxy-2,2bis(hydroxyethyl)propyl]thio]-2-methyl-. (2S)- (SCI) (CA_IBOEX_MME)

Absolute stereochemistry.

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



207686-75-7 CVPLUS Programmide, NF((1S,2R)-3-[(1,3-benzodrown)-5-ylsu|foryl)(2-methyl)propyl)anino]-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-[(2-axo-2-(4-thickeypholinyl)bethyl)pthin]-, (25)- (9(1)- (CA-100CX-WWE)-

Absolute stangerhowistry

11 1/10/20-05-7 10/20-1-1-29 10/20-1-7-29 10/20-1-7-29 10/20-2-7-29 10/20-2-8-9-20-1-2-7-29 10/20-2-8-9-20-1-2-8-9-20-1-2-8-9-20-1-2-8-9-20-1-2-8-9-20-1-2-8-9-20-1-2-8-9-2-9-2-8-9-

- L4 ARSHER 11 OF 18 CAPLUS COPPRIGRIT 2003 ACS (Continued)
 70 183004-74-2 CAPLUS
 70 Proplantation. Int (15.20)-3-(11.3-behasotioxol-5-y) sal fonyl)128 nethyloropyl han (xx) 2-hydroxy-1-(delye) (settyl) propyl)-2-methyl-3-(R3)8 nethylsal Phinyl)-. (25)- (25)(1) (CA MISEX MASS)

Absolute stereochemistry

RM 183004-77-5 CAPLUS
ON Propansands, N.E(15.28)-3-[[(2-amno-6-binzothiazolyl):pulfonyl](2-methylpropyl)zaminol-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-(methylsulfonyl)-, (25)- (9CI) CA IMBEX NAME)

Absolute stereochenistry.

RN 183182-29-8 CAPLUS

CN Proparantée. N-[(1S.28)-3-[(1.3-benzodroxol-5-ylsulfory)](2methylpropy)1aminoj-2-hydroxy-1-(phenylmethyl)propy]]-2-methyl-3-[(S)methylsulfinyl)-. (2S)- (9CI) (CA. IMDEX MAME)

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

9N 191412-86-9 CAPLUS

N Proponentie: N-[(15.20)-5-[(1.3-benzodioxol-6-ylsulfonyl))(2-nethylpopyl)annol-2-hydroxy-1-(phenylmethyl)propyl)-2-nethyl-3-[(1H-pyrazol-4-ylnethyl)sulfonyl]-. (25)- (9C1) (CA INDEX NAME)

191412-89-2 CAPLUS
Propinanide, N-[C13-28)-3-[(1.3-beneed loval-5-y) sul famy]) (2nethyl propy) (3-minol-2-hydroxy-1-(phenylmethyl) propy) (2-methyl y-3-[[(25)-2pyrrollydinylmethyl]) (3-[(25)-(9C1)-(C4-1)MEX-MANE)

191412-90-5 CAPLIS
Proparamide, N. [113.28)-3-[(1.3-berupotional-5-y)sulfory1)(2-methylprogyl)aring)-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-[((20)-2-pyrrollyinylmethyl)sulfory1)- (25)- (25)- (36) (36) MWE)

Absolute stereochemistry

Page 27

- L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)
- 8N 1914[2-77-8 CAPLUS

 N Propanentie, H-[(15,28)-3-[(1,3-benzodlow)-5-y|sulfory)](2-methyl-propy)]amnol)-2-hydroxy-1-(phenyl-methyl-propy)]-2-methyl-3-[[3-ow-3-(1-p)peraziny1)propy]]sulfory)]-, sorchydrochloride, (25)- (9C1) (CA. NECC NWICE)

Absolute stereochemistry

●H;1

RV 191412-84-7 CAPLUS

CN Proparamide, N=(EIS.2R)-3-(11.3-bentodioxol-5-ylsulfonyl)(2sethylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl)-3-[CIN-imidzol-4ylsethyl)sulfonyl)-2-sethyl-, (2S)- (9CI) (CA INDEC NME)

Absolute stereochemistry

5N 191412-55-8 CAPLUS

ON Proparamide, N+(13.28)-3-(11.3-berozofioxn1-5-ylsulforyl)12methylpropyl)aminol-2-flydrosy-1-(phenylbethyllpropyl)-2-methyl-3-(18gyrazol-3-ylmethyl)sulforyl)-. (ES)- (9C1) (CA IMEX NAME)

Absolute stereochemistry

L4 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 191412-94-9 CAPLUS
CN Proparamide, H-[15,28]-3-[(1,3-benzodiosol-5-ylsulfonyl)(2nethylpropyl)annio]-2-hydroxy-1-(phenylnethyl)propyl]-3-[(2-hydroxy-2,2bis(hydroxynethyl)propyl]sulfonyl]-2-nethyl-, (25)- (901) (CA IMEX NAME)

REFERENCE COUNT:

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 43

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION MUMBER: 1998:41716 CAPLUS DOCUMENT NUMBER: 128:115228

128:115228
Preparation of sulfonylalkanoylamino hydroxyethylamino sulfonamide retroviral protease inhibitors
Getman. Daniel P.: Decrescenzo. Gary A.: Freskos. John INVENTOR(S):

N.: Vazquez, Michael L., Shkorski, Janes A., Devadas, Baletudru: Nagarajan, Srimivasan: Modonald, Joseph J. G.U. Searle + Co., USA U.S., 57 op., Cont.-in-part of U.S. Ser. No. 401.838. PATENT ASSIGNEE(S):

abandoned. CODEN: USXXXAM

OCCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

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AT 1996-911229 19950307 ES 1996-911229 19950307 MD 1997-4146 19970903 US 1995-41862 A 19950310 US 1995-478625 A 19950307 MO 1996-US2682 W 19960307 PRIORITY APPLIE INFO .:

OTHER SOURCE(S): MARRAT 128-115225

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

8N 183804-73-1 CAPLIS
ON Proparamore. N-[15, 28)-3-[16-beruothtazo]ylsulfony]){2nethylpropyllamino}-2-hydrocy-1-(pherylnethylpropyl]-2-nethyl-3(nethylsulforyl)-. (23)- (9CI) (CA IMMEX MAME)

183004-74-2 CAPLIS
Propinantide, M-[(15,58)-3-[(1,3-benzodioxol-5-ylsulfonyl)](2nethylpropyl)amnoj-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(R)methylsulfinyl]-, (25)- (901) (OA INDEX MANE)

Absolute stereochemistry.

183004-78-6 CAPLIS
Proparamide: N-[(15.28)-3-((5-bencothiazo))/sulfory1)(2nethylpropy1)/anino)-2-hydroxy-1-(phenylmethyl)propy1]-2-methyl-3(methylsulfory1)-. (35)- (9CI) (CC. IMEX.MME)

Absolute stereochemistry.

Page 28

L4 AVSNER 12 OF 18 CAPLUS (OPYRIGHT 2003 ACS (Continued)

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IT 1M03-66-3P 18304-72-0P 18304-73-1P 18304-74-0P 1830

RN 174303-66-3 CAPLUS
CM Proparamide, N.F.(15.28)-3-[(1.3-beazodioxol-5-ylsulfonyl)(2-methylpropyl)amnol-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(nethyl sulfonyl)-. (25)- (9CL) (CA JNRET MANE)

Absolute stereochenistry

8N 1830M-72-0 CAPLUS
ON Propansatids .N=(151,28)-3-(1(2,3-chtydro-1,4-banzodoxin-6-y1)sulfony1)(2-sethylpropy1)zaming1-2-hydroxy1-(phrylaethyl)propy1)-2-sethyl-3-(sethyl)sulfony1)-. (25)- (961) (CA LMDE NUME)

Absolute stereochemistry

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

 6W
 183182-29-8 CAPLUS

 CW
 Proparaside, Mr.(1S.28)-3-[(1,3-bnrzodioxol-5-ylsulfonyl)(2-nethylpropyl)aninol-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-[(S)-ethylsulfinyl]-. (2S)- (9Cl). (CA IMEX NAME)

II stocke Ay J. stocke 4; per section 4; per section 4; per section 5; per section 5; per section 6; per sectio

RM 183005-01-8 CAPLUS
CM Propenamide, N. F(15, 28)-3-[(1,3-benzodioxol-5-yl-sul fonyl) (2-methyl-propyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(nethyl-thio)-, (25)- (9CI) (CA JMCE MAME)

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

Absolute stereochemistry.

ISSNe-7-3P ISSNe-7-6-4P ISSNe-7-59
IL: 594 Clysthetic preparation): FRIP (Preparation)
(preparation): 595 (September 1997): Friparation)
(preparation): 595 (September 1997): 59

Absolute stereochemistry

18300-76-4 CAPLUS
Carbanic acid. [5-IIII(28:,35)-2-hydroxy-3-III(25)-2-methyl-3cethyl sul forlyl-1-0-opcyoyl Janinoj-4-phonylbucyl-122methylorocyl Janinoj-bai foryl-j-14-bent inidazol-2-yl-)-. Bethyl ester (9C1)
CA MDEX MDEX.

Absolute stereochemistry

LA ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACT

ACCESSION NUMBER: DOCUMENT NUMBER: TLTLE:

1997:450087 CAPLUS 127:65754

INVENTOR(S)

PATENT ASSIGNEE(S): SOLDCE:

DOCUMENT TYPE: LANGUAGE:

Foolish FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO KIND DATE APPLICATION NO. DATE Set. TD. TG.

Al. 1997/6022 Cd. 1996-225325 59891113
Al. 1997/6024 Pd. 1996-74020 1996-1113
Al. 1997/6024 Pd. 1996-74020 1996-1113
Al. 1998/9020 Ep. 1996-940020 1996-1113
TZ. 2000/1212 Sep. 50. Ft. Tt. 11, U.M. St. Pf. H. F. T. T. 2000/1212 Sep. 1996-113 596-1113
WM-947-127-5697-94

OTHER SOURCE(S): GRAPHIC IMAGE:

ABSTRACT:

Page 29

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 183004-77-5 CAPLIS CN Propriamide: N: (115,28)-3-[((2-anino-6-benzothiazoly1)sulfory1)(2-nethylpropy1)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-(nethylsulfory1)-. (2S) (9CI) (CA INDEX NAME)

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Absolute stereochenistry

183004-74-2 CAPLUS
Proparanide. 8-[CIS.2R)-3-[(I.3-benzodioxol-5-yIsulfonyl)]-2-methylpropyl)aninoj-2-hydroxy-1-(phenylnethyl)propyl]-2-methyl-3-[(R)-methylsulfinyl]-. (ZS)- (SCI) (CA IMECX MME)

Absolute stereochemistry.

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191412-76-7 CAPUS
Proganantde, N-(11, 28)-3-[(1, 3-bercodtoxol-5-y-) sul fonyl) (2secto) progyl harinol-2-hydroxy-1-phreny inethyl)propyl)-2-sethyl-3-[(2-[(2(1-oxido-1-pyrrol-idiny) liethyl]amnol-2-pixethyl [3all fonyl]-. (25)- (9Cl) CCA INDEX MANES

1914(2-77-8 CAPUS
Propriente: N-(1(S. 28)-3-((1.3-benzodioxol-5-y-)sulfory1)(2pertyl-propy) 1-2-pertyl-3-((3-pertyl-fory)pertyl-fory)) 1-2-pertyl-3-((3-pertyl-fory)pertyl-fory))
(G-piperaciny) (propy) (sulfory) 1-, accetyl-forthloride, (25)- (9C1) (CA
MODEL MACE)

Absolute stereochemistry

●HC1

RN 191412-78-9 CAPLIS
CN Propinamide, N-f(15,28)-3-f(1,3-benzodroxol-5-ylsulfonyl)(2nethylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-f(2-f(2-f))

Page 30

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RM 183004-77-5 CAPLUS
CN Propanande. N. [CLIS, 28):-3-[[(2-amino-6-benzothiazoly1)sulTony1](2
methylpropy1)amino]-2-hydroxy-1-(phanylmethyl)propy1]-2-methyl-3(methylsulTony1)-. (25)-. (9C1). (CA IMBEX MANE).

8W 183182-29-8 CAPLUS

ON Proponentide, N.-(L15.28)-3-(11.3-berazodioxo1-5-ylsul fony1)(2-nethylogy))anno)-2-hydroxy-1-(phenylmethyl)propy1)-2-sethyl-3-((5)-nethylsul finyl)-. (25)- (9C1) (CA 1NOEX NAME)

Absolute stereochemistry

RM 191412-79-6 CAPLUS
CN Proparamide, N-(1(5,28)-3-{(1.3-benzedioxol-5-ylsulfonyl)(2-methylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-([2-(2-pyridnyl)bethyl)sulfonyl)-. (25)- (9Cl) (CA MDCX MWE)

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS ((Continued) (4-axido-4-axrpholinyl)ethyl jamino]-2-oxoethyl jsulfonyl]-. (25)- (9C1) (CA INDEX NAVE)

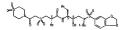
Absolute stereochemistry.

191412-79-0 CAPLUS
Propaniande, N-1(11,528)-3-[(1,3-bentodicool-6-yl-sulfory)])(2neethylprogy)lasinos)-2-hydrosy-1-(phenylmethyl)progy)1-2-neethyl-3-[[2-(4norpholinyl)-2-oxoethyl-jaulfory]-, (25)- (901) (CA 180EX MANE)

19142-80-3 CAPLUS
Proparatide. M-{(15):28)-3-{(1,3-beroadroxal-5-y} sulfory1)(2netty)propy) Janino)-2-kydroxy-1-(phenylmethyl)propy)]-2-nethyl-3-{(2-oxo-2(1-pyeraziry) lethyl Jou1fory1)-, acnohydrochloride. (25)- (901) (CA INDEX

- ARSIER 13 OF 18 CAPLIS COPPRIGHT 2003 ACS (Concinued) 151412-81-4 CAPLIS (PRIGHT 2003 ACS (Concinued) Properation, VIII (15.281-3-[(1.3-benzodioxo)-5-yisulforyl))(2-actiy)propyl)amino)-2-iyotroxy-1-(phenyisetty)propyl)-2-ectly1-3-((2-axa-2-phenyiety))-3-(15)(1) (Z). IRECX MMC)





191412-83-6 CAPLIS
Sikarnoic acid. 4-[([(25)-3-[((15,28)-3-[(1,3-bencotioxa)-5-yispifonyi))(2nethylpropyl)amino]-2-hydroxy-1-(phenylnethyl)propyl]amino]-2-nethyl-3oxapropyl)thio]-. ethyl ester (9Cl). (CG LNEX MAPE).

ANSVER 13 0F 18 CAPLUS COPPRIGNT 2003 ACS (Continued)
Prognanide. 3-{(1)-benchindaza-1-2-yhethyllaulfonyll-N-{(1)-Sey-3-{(1,3-benchindaya-1-2-yhethy-1-aulfonyl-1-1-dehendinab-1-2-yhethy-1-aulfonyl-1-2-hethyl-nogyl-1-aulfonyl-1-2-yhethyl-nogyl-1-2-hethyl-nogyl-1

Absolute stereochemistry

 $\begin{array}{lll} 191412\cdot 88\cdot 1 & \textit{CAPLUS} \\ \text{Proporal aide}, & \text{II-(15,28)-3-(1,3-benzed ioval-5-y) sul fory}) (2-betly) & \text{II-(2-1)} \\ \text{Proporal aide}, & \text{II-(2-1)} & \text{II-(2-1)} \\ \text{Proporal aide}, & \text{II-(2-1)} & \text{II-(2-1)} \\ \text{Proporal aide}, & \text{II-(2-1)} & \text{II-(2-1)} \\ \text{II-(2-1)} \text{II-(2-1)} \\ \text{II-(2-1)} & \text{II-(2-1)} \\ \text{II-(2-1)} & \text{II-(2-1)} \\ \text{II-$

Absolute stereochemistry

191412-89-2 CAFLUS
Proponentide, N-[(1]S, 2R)-3-[(1]3-benzodioxol-5-yl-sul fonyl)12nethyl propyl Jamina]-2-hydroxy-1-(chenyl nethyl) propyl J-2-nethyl-3-[((2S)-2pyrrol (chryl nethyl) sul fonyl]-. (2S)- (9C) (GA (MDCX NME))

Absolute stereochemistry

1914(2-1913 Centus
Propelamide N. F.(15.2R)-3-[(1.3-benzodioxo)-5-ylsulfonyl)(2methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[((2R)-2pyrrollidinylmethyl]sulfonyl]-. (2S)- (9CI) (CA (NOEX NOVE)

Absolute stereochemistry

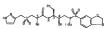
Page 31

- L4 AMSKER 13 OF 18 CAPLUS COPYRIGHT 2013 ACS (Continued)
- RM 191412-84-7 CAPLUS

 N Proparentide. Nr (115.28)-3-[(1.3-brizodioxol-5-ylsulforyl)](2-netty)propyl)amin(3-2-bydroxy-1-cptery)nettyl)propyl)-3-[(1ll-iniciazol-6-yleethyl)sulforyl)-2-nettyl-. (25) (9C1) (CA INDEX NAVE)

Absolute steroschonistry

RN 191412-85-8 CAPILUS
Propunantide. N-[(1S.28)-3-[(1.3-benzodtoxol-5-ylsu) foryl)(2nethylpropyl)amino]-2-hydroxy-1-(phenylaethyl)propyl)-2-nethyl-3-[(IHgyrazol-3-ylmethyl)sul/foryl]-. (25)- (9CI) ((A.MRX MME) Absolute stereochemistry



191412-86-9 CAFLUS
Propenantide. M-{(15.28)-3-{(1.3-benzodroxo1-5-ylsulfonyl){(2-methyl)rgpyl)asmo}}-2-hydroxy-1-(phraylmethylspropyl)-2-methyl-3-{(1H-pyrazo1-4-ylmethyl)zulfonyl]-. (25)- (9C) (CA INDEX MANE)

Absolute stereorismistry

ON 191412-87-0 CARLIS

L4 ANSWER 13 DF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191412-91-6 CAPLUS
Proparamide, N.E(15.28)-3-{(1.3-benzostoxol-5-ylsulfonyl)(2-methylpropyl)amino}-2-hydraxy-1-(phonylmethyl)propyl]-2-nethyl-3-(2-pyritinylsulfonyl)-. (25)- (9(1) (CA INDEX MME)

191412-92-7 CAPLUS
Propriestics. N-{(1), 28)-3-{(1), 3-berupolituo)-5-ylsul foryl)(2-nothyl)propyl)-3-{(1), 3-berupolituo)-5-ylsul foryl)(2-nothyl)propyl)-3-{(1), 3-berupolity)(3-berup



191412-93-8 CAPUS
O-Ritofuranoside, nettyl 5-ff(25)-3-ff(15,29)-3-f(1,3-benzotional-5ylaufronyl-2-eaethyl-propyl-laufron)-2-bydroxy-1-(phonylaethyl-propyl-jan-no)2-aethyl-3-o-xopropyl-jaufronyl-3-c-doxy- (91) (CA IMEX NAVE)

191412-94-9 CAPLIS
Proparanté. N. [415,281-3-(ct.3-benzodrouol-5-yl sul fonyl) (2netty) progyl Jamon 3-2-hydroxy-1-(phrey lnethyl) progyl]-3-[(3-hydroxy-2,2bis(hydroxynethyl) progyl] sul fonyl]-2-nethyl-_(25)-(9CI) (GA (BDEX MAE)

191412-95-0 CAPLUS
Propariande. N-{(15.281-5-{(1.3-benzodroxol-5-ylsulforyl)}(2-methylpropyl)annol-2-hydroxy-1-(phenylnethyl)propyl]-2-methyl-3-{(2-pyridinyl)thyl]sulforyl]-, (25)- (9C) (CA IMOCX MARC)

Absolute stereochesistry

191412-96-1 CAPLUS
Propriamide, N-E(15.2R)-3-[([2.3-ditydro-1.4-benzodia.xin-6-yl.)sulforyl](2-nethylpropyl)zalino]-2-hydrosy-1-(phenylaethyl)propyl]-2-methyl]sulforyl]-(2-ox-2-(2-pyndinyl)ethyl]sulforyl]- (25)- (901) (CA INEX MME)

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L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

 $\begin{array}{lll} 19143-01.1 & CAPLUS & \\ & Fropamstide. & W_{1}(15,28)-3\cdot \{11.3-berupodicurol-5-y1sul foruy\}) \{2-bertyy1-3-y1sul foruy1-1-2-bertyy1-3-y1sul foruy1-3-y1sul foruy1-1-2-bertyy1-3-y1sul foruy1-1-2-bertyy1-$

191413-02-2 CAPLUS
Propinsaride, N-f(15,28)-3-f[(2,3-dithydro-1,4-benzodioxin-6-y1)sulfony1](2-methylpropy1)amro-1-2-hydroxy-1-(phenylmethyl)propy1]-2-methyl-3-f[(2-ox-2-(3-py+ridinyl)tethyl]yulfony1]-, (25)- (9Cl) (CA IMDEX MANE)

191413-03-3 CAPLUS
Propananide, N-(15:28)-3-[(6-betsoth) acolytisul forey) 1(2nethyl propyl) anino]-2-hydroxy-1-(pheny leethyl) propyl]-2-nethyl-3-[(2-oxo-2(3-pyridiny) bethyl] sul forey]-1, (25)- (9(1)) (CA INOX MME)

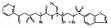
Absolute stereochemistry

Page 32

ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

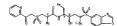
191412-97-2 CAPLUS
Propanantide. N-(115.28)-3-(6-beroothiszoly/sulfonyl) (2methyl proxyl) Jaminos-2-hydroxyl-1-(benylhethyl) proxyl]-2-methyl-3-([2-oxo-2(2-pyridinyl) jathyl [jaulfonyl]-. (25)- (91). (CA INECK AMME)

Absolute stereochemistry.



191412-99-4 CAPLUS
Propanentie. N: {(15.26)-3-{(5-benzothiazolylsul foryl) (2-enthylyrosylanino); 2-hydroxy-1-{pherylaethylporpyl)-2-enthyl-3-{[2-oxo-2-(2-pyridinyl)ethyl]sul foryl]-. (25)- (901) (CA IMDEX NAME)

Absolute stereochemistry

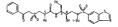


RN 1914)3-00-0 CAPLUS

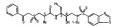
ON Proparisitide, IH-(15.28)-3-([(2.3-dihydro-5-benzofurany])sulfony])(2-nethylopop) laning]-2-bydroxy-1-(phonylaethyl)proxyl]-2-nethyl-3-[[2-oxo-2-(2-pyridiny])sulfony]]-. (25)- (9C) (CA INDEX NWE)

Absolute steneochemistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



191413-D4-4 CAPLUS
Proparande. N-(1S, 28)-3-(6-benzethiazolytsulforyl)(2methylprogyllamino)-2-hydroxy-1-(phenylmethyl)propyl)-2-nethyl-3-[(2-oxo-2(3-pyridinyl)ethyl]sulfonyl)-. (25)- (95). (CA. IMEE). MME)

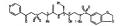


191413-05-5 CAPLUS
Proparentide. N-[115,281-3-[[(2,3-drhydro-5-benzofuranyl)sulforyl][(2-methylpropyl)arino]-2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-[[(2-axo-2-(3-pyrdinyl)ethyl)sulforyl]-. (25)- (9E) (CA INDEC NAME)

Absolute stereochemistry

RN 191413-06-6 CAPLUS
Propanande, N-C(1S,28)-3-[(1,3-benzodroxol-5-ylsulforyl)(2-nethylpropyl)aminol-2-hydroxy-1-(phenylnethyl)proxyl]-2-methyl-3-[(2-oxo-2-(4-pyridinyl)athyl)aulforyl]- (25)- (9Cl) (CA IMDEX NAME)

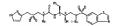
L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



191413-07-7 CAPLUS
Proparande, N-[(12.3-dihydro-1,4-benzodioxin-6-yl)sylfonyl](2methylpropyl)arinoj-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(2-ox-2-(4-gyridinyl)ethyl]sulfonyl)-. (25)- (951) (CA IADEX RAME)

191413-03-8 CAPLUS
Propanande, N-[(15,28)-3-[(6-beroothiazolytsul forly1)(2nethyl propyl) aminol-2-hydroxy-1-(phenyl hethyl) propyl }-2-nethyl-3-[[2-oxo-2(4-paristrayl) lethyl [sul foryl]-. (25)- (9C) (CA INDEX MME)

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RM 1914/3-13-5 CAPLUS
CN Propamaride, NF.(15.28)-3-E (5-benoothiazolylisulforyl)(2-nethylpropyl)aminol-2-hydroxy-1-(phenylnethyl)propyl]-2-nethyl-3-E (18-pyrazol-3-yleethyl)aulforyl]-. (XS)- (XCI) (XA INDEX MAME)

RW 191413-14-6 CAPLUS

CW Proparismde. N-(1S.28)-3-[[(2.3-d-thydro-5-benzofunary])sulfory]](2-sethylpropy]1amino]-2-thydroxy-1-(phetylmethyl)propy]-2-sethyl-3-[(Ili-pyraz)-3-ylbethyl)sulfory]-. (2S)- (9C)- (CA LINEX MME)

Absolute stereochemistry

88 191413-15-7 CAPLUS
OP Proparamid: H-[(15.28)-3-[(2.3-didydro-1.4-berusodroxin-6-y1):ulifonyl](2-activ)poroyl.)amino]-2-hydroxy-1-(phanylmethyl)propyl]-2-nethyl-3-[(2-oxo-2-phreylethyl)sulifonyl]-. (25)- (9CI) (CI INDEX MMP).

Absolute stareochomistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

1914.13-10-2 CAPLUS
Propinant de. N-T_(15.28)-3-[{(2.3-d1hydro-5-benzo furdiny1)sul fory}]{(2-methylprogy)}amnoj-2-hydroxy-1-(phinylmethyl)progy]1-2-methyl-3-{[(2-oxo-2-(4-pyr-dinyl)-ethyl)]sul*fory]1-. (25)- (9C1) (CA 1860X MWE)

RN 191413-11-3 CAPLUS
Programatide. N-(E15.28)-3-E(2.3-dihydro-1.4-benzodioxin-6-y1)-sulfony1](2methylorogy)-zminoj-2-hydroy-1-(phetylmethyl)-propy]-2-methyl-3-(lihgyrazol-3-y-inethyl)-sulfony]-. (25)- (9C1) (CA NOEX MMR)

Absolute stereochenistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 191413-16-8 CAPLUS

(N Propinsands - N+(15.58)-3-((6-benzothiazo)) sul fary 1) (2nethyloropy) hasnoj-2-hydroxy-1-((pletylsetty) lyroxy)]-2-nethyl -3-((2-oxo-2pletylethy) sul fory)]-. (25)- (901) (CA INDEX MWE)

8N 191413-17-9 CAPLUS
CN Propasantide. N-F(11S.2R)-3-[(5-beroothiazolyl-sul-fonyl))(2methylpropyl-laminol-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-[(2-oxo-2prenylethyl)sul-fonyl)-. (2S)- (9C1). (CA.1NDCX MAME) Absolute stereochemistry.

RV 191413-18-0 CAPLUS

CV Proponentie, H-(1(1,5R)-3-[((2,3-dihydro-5-benzofurany))sulfonyl](2nethylpropyl)amiro);2-hydroxy-1-(phenylmethyl)propyl]-2-nethyl-3-[(2-oxo-2phenylethyl)sulfonyl]-, (23)- (9(1) (CA INDEX MVME)

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RM 191413-19-1 CAPLUS

CM Proparamide, N-((1S.28)-3-[[(2.3-dihydro-1.4-benzodioxin-6-y-])sulfonyl](2-aethylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl]-2-aethyl-3-[(S-thiazolylnethyl)sulfonyl]-. (2S)- (9(1) (CA 180EX NAME)

RM 191413-20-4 CAPLUS
CM Proparamide, N-[CIS, 29-)-3-[(6-binzothiazolyl sul foryl)](2methylpropyl Jamino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(5thazolylanthyl)sul foryl]-, (CS)- (GCI) (CA [IREX MME)

191413-22-6 CAPLIS
Prognantide. N-[CIS.2R)-3-[(S-berzothtazoly1sul fony1)[2sethy[propyl]anino]-2-hydroxy-1-(pherylaethy1)propyl]-2-nethyl-3-[(Sthtazoly]heithy1)sul fonyl]- (CS)- (9CI) (CA IMBEX NAME)

L4 ANSHER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191413-31-7 CAPLUS
Propananide, N.-[(15.28)-3-[(5-benzothnazoly) sulfonyl)(2methylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[2-(2pyrionyl)sethyl]sulfonyl]-. ((3)- (91) ((A.1MDEX MWE))

89 19143-34-0 CAPLIS (N Proparantide, N-(115.2R)-3-[[(2.3-dilydro-5-benzofurary1)sulfory1](2-net/bjpropy1)annol-2-bydroxy-1-cjbeny/hechyl)pocpy1]-2-nethyl-3-[[(2-(2-pyridiny1)ethyl)]sulfory1]-. (25)- (9(1) (CA INDEX IMPE)

RW 191413-36-2 CAPLUS

CN Propanance, N.-{(15, 2R)-3-{(1,3-benzodioxol-5-yisulfonyi)}(2-nethylpropyl)lamnol-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-{(2-(3-pyridnyl)ethyl)pulfonyl)-. (25)- (9CI) (CA_IMDEX_RAME)

Page 34

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191413-24-8 CAPLUS
Proparantde. N-{(15.28)-3-{{((2.3-d1)ydro-5-bereofurery)1)sulfory}}{2-eethy1-7pgy13-2-eethy1-3-{((5-thiazoly)nethy1)sulfory}}. (25- (901) (CA_INBEX_NAME)

8W 19143-26-0 CAPLUS

ON Propanentide, W-E(15, 28)-3-E[(2,3-ditydro-1,4-benzedtoxin-6-y1)sulfory1](2-ectry|rproy1)aminoj-2-hydroxy-(pherylatelyh)propy1)-2-ectryl-3-E[(2-(2-pyrtidyl)tehyl)]sulfory1]-, (25)- (91) (CA: IMEX MME)

Absolute stereochemistry

191413-29-3 CAPLUS
Proporismode. W-[15]-RN-3-[(6-benzothrazolylsulforyl)](2methylpropyl)ammol-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[2-(2gyridinyl)bethyl]sulforyl]-, (25)- (901) (CA IMEEX MAME)

Absolute stereochemistry

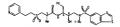
L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

 $\label{eq:continuous_problem} $$ 191413-38-4 $$ $$ CAPLUS $$ $$ Proparancie. N-{(1S.2R)-3-{\{[(2.3-d)hydro-1,4-bercodfoxnn-6-y-)}sulfony}]{(2-nethylpropyllanino}-2-hydroxy-1-(pherylmethyl)propyll-2-nethyl-3-{\{[(2-(3-pyridiny))-6thyl]}sulfonyl)-. (ES)- (9Cl) $$ (CA INREX NME)$$$

RN 191413-49-8 CMPLUS
ON Proponenties. N°-(15.52)-3-(16-benzothiazoly)sulfory)1(2-aethylorogy)lamnoj-2-hydrosy-1-(phenylaethyl)propy)1-2-nethyl-3-[[2-(3-pyridlyyl)sulfory)]-. (25)- (901) (CA IMBEX NAME)

RM 191413-43-1 CMPLUS
ON Proponentie. N-{(15.8)-3-{(5-benothnazo)ylsulfony)1/2-ethylcosyl-1-(phetylnecty)lpnosyl-1-2-ethyl-3-{(2-(3-pyrldinyl)ethyl]sulfonyl-1-(55)-(50) (CA DDEX NAME)

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 191413-45-3 CAPUS
ON Propariande, N.-(115,28)-3-[((2,3-drhydro-5-benzofurary1)sulfony1](2-nethyl-propy1)anino]-2-hydroxy-1-(phenylmethy1)propy1]-2-nethyl-3-[(2-(3-pyridiny1)ethy1]sulfony1]-. (25)- (9C1) (CA INBEX MWE)

Absolute stereochemistry

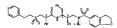
RM 191413-47-5 CAPLUS
CN Propagatide, Nt-[CIS.28)-3-[(1.3-benzodroxol-5-ylsul foryl)](2-methylpropyl)aminol-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[[2-(4-pyridnyl)ethyl]]ull foryl]-. (23)- (901) (CA IMDEX MARE)

Absolute stereochemistry.

FN 191413-49-7 CAPLIS OF Programmide. H-[1S.28)-3-[[(2.3-dihydro-1.4-benzodioxin-6-y1)sulfonyl](2-nethylpropyl)amino]-2-hydroxy-1-(pherylmethyl)propyl]-2-nethyl-3-[[(2-(4-gyridinyl)ethyl)sulfonyl)-. (2S)- (9t1) (CA INDEX NAME)

Absolute stereochemistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RB 19143-56-6 CAPUS

D1 1-Pyrrolidinecarboxyl ic acid, 2-[[(25)-3-[[(15,28)-3-[((2,3-dihydro-1,4-brondona-1-6-y)]sul flowyl [(2-ecity) [propyl) amino] 2-hydroxy-1-(pheryhecity) [propyl [samo] 2-acity)-1-oxpoyroy [[3ul flowyl [sectivy]] 2-pheryhecity actor, (25) - (20)() ([d. MISEX Marxil 1-6]).

Absolute stereochemistry

89 1914]3-57-7 CAPLUS

10 1-Pyrrol Intimecarboxylic acid. 2-{[((25)-3-{[(15,28)-3-[(6-breathtisacyl is all fony)](2-methyl propy) benino}-2-hydroxy-1-(phinylmethyl propy) Jenno]-2-methyl-3-oxopropy) Jal fony] intity]-phroy lactily ester. (25) - (61) (62) Intity Met)

Absolute stereochemistry.

39 19143-58-8 CAPLES 19-Primol dimecarbosyl is acids, 2-[[[[25]-3-[[(15,28)-3-[(5-berozofialos)])sul fosyl 1(2-ecthyl-scopy) junitos)-2-hydroxy-1-costoylectry lycropy [sanios]-2-hydroxy-1-phrylinethyl setser, (25)- (25)- (26

Absolute Stereochemistry

Page 35

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 191413-50-0 CAPLUS
CN Properation (FITS.28)-3-(6-benothiazoly) sulfony1) (2mothly-pory) Jamino)-2-hydrosy-1-(phenylmothly) (propy)-2-methyl-3-([2-(4pyridiny))-ethyl) sulfony1)-, (2S)- (9C1) (CA INDEX NME)

olute stereochemistry.

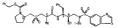
 191413-51-1 CAPLUS
 Proponaniol, N-[(15,28)-3-((5-beroothiazoly)su)foryl)](2methylprosyl)amino]-2-hydroxy-1-(pherylmethyl)propyl]-2-methyl-3-[[2-(4pyridny)styl)]sulforyl]-. (25)- (93). (CA. IMBEX. MME)

....

RN 191413-53-3 CAPLUS
Propanatide, Nr. (15. 28)-3-[[(2.3-dihydro-5-benzofurahy) sul fony]](2methyl propy) amino]-2-hydroxy-1-(phenyl nethyl) propy]-2-methyl-3-[[2-(4pyridnyl) schyl]sul frony]-1-, (25)- (9(1)- (CA | NGEX MME)

Absolute stansochemiste

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



RM 1914[3-61-3 CAPUS

I - Pyryrol id necarboxyl ic. acid. 2-[[[(15)-3-[[(15,28)-3-[[(15,28)-3-[[(15,28)-3-[[(15,28)-3-[(1

Absolute stereochemist

80 191413-62-4 CAPLUS ON Proponenties, N-((15.28)-3-((1.3-benzodroxal-5-ylsulfonyl))(2-methyloropyl)aminol-2-hydroxy-1-(phenylsethyl)propyl]-2-methyl-3-((3-oxo-3-(1-piperazinyl)propyl)sulfonyl)-. (25)- (91) (CA IMCE NAME)

Insolute stereochesistry

RM 191413-66-7 CAPLUS

ON Propagatios. N=(15, 28)-3-{(6-benothrazolylsulforyl)(2-methylpropyl)lamino}-2-hydroxy-1-(phenylmethyl)propyl3-2-methyl-3-{(3-oxo-3-(1-piperatinyl)propyl]sulfonyl]-. (25)- (901) (CA INDEX NOVE)

Absolute stereochemistry

RN 1914/3-66-8 CAPLUS

(N Proparamide, N=(105.2k)-3-((5-benzethiazoly) sulfeny1)(2-methylpropy) Jamino)-2-hydroxy-1-(phenylmethyl)propy)]-2-nethyl-3-{(3-oxo-3-(1-phenzethyl)propy)]-2-nethyl-3-((3-oxo-3-(1-phenzethyl)propy)]-2-(2b)-(CA IMDEX MANE)

Absolute stereochemistry

RN 191413-67-9 CAPLUS
CN Proparamide. N°-[1[5,28]-3-[[(2.3-dihydro-5-benzofurary])sulfory]](2methylpropy)]aamio]-2-hydracy-1-(phetylmethyl)propy)]-2-methyl-3-[[(3-oxo-3(1-piperaxinyl)propy]]sulfory]]-. (ZS)- (9CI) (CA: INTEX MAYE)

Absolute stereochemistry.

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

8N 191413-71-5 CAPLIS

ON Proparantile: 3-f(2-f(2-aninoethyl).anno)-3-auspropyl jsul foryl j-N-f(15,28)-3-f(6-bencathiazolyl sul foryl) (2-nethyl propyl jamno)-2-lydroxy-1-(phonylnethyl jamop) 12-methyl - (25)- (901) (COL MMEX MWE)

Absolute stereochemistry

RN 191413-72-6 CAPLUS

CN Propermentée, 3-{(3-{(2-aminoethyl)amino}-3-oxopropyl)gulfonyl]-4-{(15.2%)-3-{(1(2.3-dithydro-5-bazofuranyl)gulfonyl](2-aethylpropyl)amino]-2-hydroxy-1-(phraylaethyl)propyl]-2-aethyl-, (25)- (9(1) (CA IMDEX MME)

Absolute stereochemistry.

191413-73-7 CAPLUS
 Proparantide, N. E(15, 28)-3-[((2,3-dithydro-1,4-benzodioxin-6-y1)sulfonyl)(2-wethylpropy)1winio)-2-hydroxy-2-(hydroxyecthyl)propy)1jul fonyl)-2-wethyl-, (25)- (9C1) (CA INCEX NAVE)

Absolute stereochemistry.

Page 36

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 1914]3-68-0 CAPLUS

ON Propusantice. 3-E[3-E(2-aninoethyl)anino]-3-exepropyl]sulforyl]-N-E(15.28)3-E(1.3-beroodison)-5-ylulforyl)(2-eethylpropyl)anino]-2-hydroxy-1(phenylnethyl)propyl)-2-eethyl- (25.9)-(91)-(CA INDEX MANE)

Absolute stereochemistry.

8W 191413-69-1 CAPLIS

ON Proparantide, 3-((3-4)(2-aninoethy1)anino)-3-oxopropy1]su1fony1]-N-((15.8))3-(((2.3-dihydro-1.4-betractioxnn-6-y1)su1fony1](2-eethy1propy1)anino)-2hydroxy-1-(phony1methy1)propy1]-2-nethy1- (25)- (9C1) (CA INDEX NAME)

.....

8N 191413-70-4 CAPLUS
CN Proparamice. 3-(15-162 annoethy) Jamino)-3-o-oppropy] justiferyl]-9-(15.28)-3-(66-hearthsato) yiloul Yoryl) (22-hethy) propy) Jamino)-2-hydroxy-1-(phenylnethyl) propy) 3-2-nethyl-, (25)- (901) (CA INDEX NAVE)

Absolute stereochenistry

14 ANSWER 13 DF 18 CAPLUS COPYRIGHT 2013 ACS (Continued)

 191413-75-9 CAPLUS
 Propunatide. Hr (105.28)-3-[16-berzothiazolylsul foryl) (2methylpropyl) amnol-2-hydroxy-1-(phenylsethylpropyl)-3-[(3-hydroxy-2-(hydroxynethylpropyl) Jsul floryl)-2-methyl-, (25) (3(1) (CA (IMEX MME))

Absolute stereochemistry

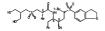
RW 191413-77-1 CAPLUS

CN Propenantic. Nr [15, 28]-3-[(5-benzothizzolylsulfonyl)](2nethyl propyl Nanion]-2-hydroxy-1-(phenylnethyl) propyl) 3-3[(3-hydroxy-2(hydroxynethyl)propyl]sulfonyl]-2-methyl-, (25)- (9C1) (CA 180EX MANE)

Absolute Stereochemistry.

191413-79-3 CAPLUS
 Propanantide. Hr (15-28)-3-EE(2,3-dihydro-5-benzofurally) sulfony1)(2-nethylpropy1) aminol-2-hydroxy-1-(phelylbethyl propy1)-3-EE3-hydroxy-2-(hydroxynethyl)propy1)-3-Enshyl-1, (25) (901) (CA INBER IMPE)

L4 ANSWER 13 OF 18 CAPLUS COPTRIGHT 2003 ACS (Continued)



191413-82-8 CAPLUS
Propulation:

Absolute stereochemistry

191413-84-0 CAPLUS
Propriamide: N-(1(1S.28)-3-[(6-benzothiazoly) sul fonyl)(2methylprogyl)aminol-2-hydroxy-1-(phenylmethyl)progyl]-2-methyl-3-[[(2R)-2pyrrolidnylmethyl]sul fonyl]-. (2S)-. (9CL) (CA IMDEX MWE)

Absolute Stereochemistry

 $\begin{array}{llll} 191413-86-2 & CAPLUS \\ Proparamide, & II-(15, 28)-3-((5-bencothiazo)y1sulfory))(2-methyl propy) amely) & Propy & Pr$

Absolute Stereochemistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



183005-01-8 CAPLIS
Proparamide. N-[C15,28)-3-[(1,3-behraodioxol-5-y1sulfonyl)(2nethylprogylam nol)-2-hydroxy-1-(phonylmethyl)propyl]-2-nethyl-3(methylthio)-, (25)- (9C1) (CA INDEX MME)

Absolute stereochemistry

191413-92-0 CAPLIS
Proparantide, M-[CIS.28)-3-[(1.3-benzodtoxol-5-y] sulfoxyl)(2methyl prosyl lan mol-2-hydroxy-1-(phrylinethyl)prosyl 3-2-methyl-3-[[2-(2pyridinyl)tethyl]thto]-. (25)- (9CI) (CA IXXIX MMF)

Absolute stereochemistry

191413-94-2 CAPLUS
Propariseride. N-f(15, 28)-3-f(1.3-benezofrozol-5-yl-sulforyl)t(2nethylpropyl)zennol-2-hydroxy-1-(phetyl-nethyl)propyl-3-2-methyl-3-f([2-oxo-2([2-(1-pyrrol|drinyl)zetryl)jamino|sethyl]thio]-, (25)- (5C1) (CA 188EX MME)

Absolute stereocheristry

Page 37

L4 AWSHER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191413-88-4 CAPL(IS
Proparatide. N+(11S.28)-3-[(2.3-dithydro-5-benzofurany))suifonyl](2methylpropyl)amino]-2-hydroxy-1-(phenylnethyl)propyl]-2-methyl-3-[((28)-2pyrrolidinylnethyl]sulfonyl]-. (25)- (25)- (24 IMBEX NME)

Absolute stereochemistry

Absolute stereochemistry.

L4 AMSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

191413-98-6 CAPLUS 1.Piperas incearboxylic acid, 4-[3-[[(35)-3-[([15,28)-3-[(1,3-benzodioxol-5-ylsulforyl)(2-methylpropyl)amno]-2-hydroxy-1-(phenylmethyl)propyl]amno]-2-methyl-3-oxopropyl[thio]-1-oxopropyl]1. 1.1-dimethylethyl ester (90) (CA IMEE NAME)

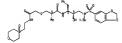
PAGE 1-8

191414-00-3 CAPLUS
1-Piperas inecarboxy is acid. 4-(3-![(2S)-3-[[(1S,2R)-3-[(1,3-bentodioxol-5-y)yslodys)].2-estryl-propy) baring-1-2-hydroxy-1-(pheny/nethyl)propy) baring-1-2-estryl-3-oxpropy) Jul (foy)]-1-oxpropy) Jul

PAGE 1-B

59 191414-02-5 CARUS
CM Proparantide, M-(3-(1.3-beroactious)-5-y1sul fory1)(2-secthylpropy1)anino)-2-tytoro-1-2-(2-(2-(4-saxido-4-acrypol-inyl)tethyl)anino)-2-osoethyl)thio)-, [15-(18-(4-), 25-4)-(9C1) MOX MOX.

Absolute stereochemistry



88 191414-04-7 CAPLUS
CII Proparamor, H-(1(1), 281-3-[(1), 3-bessodiosol-5-ylsulfonyl)(2-methylpropyl) varinol-2-hydrosy-1-(phetylmethyl)propyl)-2-methyl-3-[[2-(4-morthollinyl)-2-countryl)](hlio)- (23)- (9(1)) (CA NRET NME)

Absolute stereochemistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE

PAGE 1-8

38 1914]4-07-0 CAFUS Proparation N- (15, 28)-3-[(1,3-benzodioxol-5-yisulfony))(2-methylpropy)]amino]-2-hydroxy-1-(phnylmethyl)propy)]-2-methyl-3-[(2-oxo-2-phnylethyl)bhog]-. (23)- (901) (CA. IMCX NWE)

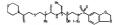
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 191414-08-1 CAPLIS
 Proparanide. Hr.(3-(1.3-bertodiosal-5-ylsal fonyl) (2-nethyl progy) Jamnol-2hydrocy-1-(pherylnethyl)progyl]-3-([2-(1.1-dioxido-4-thiosephol inyl)-2owethyl [bhio]-2-nethyl-. [IS-([R*(R*).25*])- (SCI) CA INDEX MME)

Absolute stereochewistry.

Page 38

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



88 191414-65-8 CAPUS

On 1-Piperazinteactory itc acid. 4-[[[(25)-3-[[(15,28)-3-[(1,3-benzediaxa)-5-ylsulfary)](2-entylpropy)]amino]-2-hydracy-1-(phery inetty 1)propy)]amino]-2-hettyl-3-axopropy) [[thio]acety]]-1.1.d-dinethyletyl exter (901) (CA

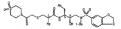
Misolute stereochemistry

PAGE 1-8

88 191414-66-9 CAPLUS
CN 1-Pipereztrecarboxyls acid. 4-[[([2S]-3-[[(1S,28)-3-[(1.3-benzodiouo]-5-ylus1foxyl)]Dergoy])Jarino]-2-eetbyl-3-osopropyl]SulToxyl]Seetbyl]-. 1.1-dinetbyletbyl ester (9Cl) (CA INCK NRM)

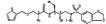
Absolute stereorbenistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



88 191414-09-2 CAPLUS
ON Proparamide, MF(15,281-3-[(1,3-benzodioxol-5-ylsul fonyl)(2methylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-3-[(IH-inidazol-4ylnethyl)thno]-2-weethyl-, (2S)- (9C1) (CA IMEE MME)

Absolute stereorhemistry

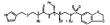


RW 191414-10-5 CAPLUS
CM Programatide, Hr.(1S, 28)-3-{(1.3-benzodioxol-5-ylsulfonyl)(2-sethylpropyl)aminol-2-hydroxyl-1-(phenylmethyl)propyl)-2-sethyl-3-{(1H-pyraol-3-ylsethyl)thio}-, (25)- (3CL) (CA (ABCE MWE)

solute stereochemstry

RM 191414-11-6 CAPLUS
(IN Programmice, IN-[CIS.2R)-3-[(1.3-benzodrawa)-5-yi sul Tony) 1/2-methy (propy) 1 amino)-2-hydrawy-1-(pheny) inethy) 1 propy) 1-2-methyl -3-[(1H-pyrazoi-4-yikethyl 1 thing)-, (2S)- (SCI)- (CA (NRET MME)

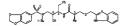
L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



PN 191414-12-7 CAPLUS

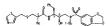
ON Propariante: 3: (LIH-benchwidezol-2-ylmethyl)thto)-H-[(15.28)-3-[(1.3-bencolous)-5-ylpa)foryl)(2-methylpropyl)amino]-2-hydroxy-1-(pherylmethyl)propyl]-2-methyl-. (25)- (91) (CA INDEX NAME)

Absolute stereochemistry.



RN 191414-13-8 CAPLUS
CN Proparentee. N-E(1S.28)-3-E(1.3-benzodioxol-5-yisulfory1)(2methylpropy1)aminol-2-hydroxy-1-(phanylmethyl)propy11-2-methyl-3-E(5thiazolylmethyl)thioly-. (25)- (9Cl) (CA.1NEE.NME)

Absolute stereochemistry.

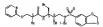


RM 19141-15-0 CAPLS

II 1-Pyrro I directrosy I is acid. 2-([(25)-3-([(15.28)-3-([(1.3-bercodiosol-5-yisal fony)] Caestry Incopy) Jaminoj-2-bydrosy-1-((phagylastry) Typogy (Jaminoj-2-estry)-3-oxograyy) [thio]setbyl]-, plany isethyl ester. (25)- (XII) (CA IRXIX XMVI)

Absolute stereochemistry

L4 AMSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



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 191414-26-3
 CAPLIS

 6M
 Distributionnosate, methyl 5-5-((25)-3-[(15,28)-3-[(1,3-benzodrosa)-5-ylsul font) 1/2-nethyl propyl]amino]-2-hydrocy-1-(pheny lnethyl) propyl]amino]-2-hydrocy-1-(pheny lnethyl) propyl]amino]-2-eethyl 3-oxopropyl]-2,3-0-(1-sethylethyl fdene)-5-thilo-(901)-(001) RDEX

Absolute stereochemistry

PAGE 1-8



89 191414-27-4 (APIL)5
D0 0-Mitofuranoside, neutryl 5-(((25)-3-((15,28)-3-((1,3-benzolioxol-5-yl-sif fonyl)/2-entryl-propyl) jamnoj-2-hydrovy-1-(phrayl-actyl) propyl) jamnoj-2-hydrovy-1-(phrayl-actyl) propyl) jamnoj-2-hydrovy-1-(phrayl-actyl-yl-denoy-2,3-0-(1-actyl-tryl-deno)-(0(1) (CI) (BEXT-MEE)

Absolute stereochemistry.

Page 39

L4 AMSHER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

84 19(414-18-3 OPUS 01 1-Pyrrol Idirecer/boy1/c acid. 2-([((25)-3-(((15.28)-3-((1.3-benzorioso)-5yl-sil froy1)(2-eethyl-propy1)salmo)-2-bydrouy-1-(pilenyl-nethyl-propy1)galmo)-2-eethyl-3-ouspropy1(thio(piethyl)-, phenylecthyl-ster. (28)- (9C1) (CA ISMEX MOVE)

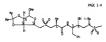
Absolute stereochemistry.

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RW 191414-24-1 CAPLUS
RP Proparatide, N+(11S.28)-3-(11.3-benzodioxol-5-ylsul foryl)(2methyl propyl) am no]-2-hydroxy-1-(phenyl nethyl) propyl)-2-methyl-3-(2pyrfdfnyl thio)-. (25)- (901) CGA (BRDX NAME)

thenlyte stansorhomistry

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)



PAGE 1-8

8N 191414-28-5 CAPU.5

N Properamée. N: (1S.20)-3-(11.3-benzodioxol-5-yl sul forty))(2enthyl propy) 1-amino)-2-hydroxy-1-(phetyl lenthyl joropyl)-3-f(3-hydroxy-2.2bis(hydroxymethyl)propyl)throl-2-methyl-, (25)- (901) (CA INDEX NAME)

scolute stereochenistry

RN 191485-19-8 CAPLUS

CM Proparentes. %:[-2:(1.3-benzodiazo]-5-ylsulfony])(2-methylpropy])amino]-2hydroxy-1.phmylnethyl)propy]]:2-methyl-3-[((2-pheny)-1.3-diozan-5yl)methyl]thio]-. (5(5(15.28))]-[partial]- (GCI) (CA INGEX NAME)

- L4 ARSKR 13 OF 18 CAPUS COPREGIT 2003 ACS (Continued) 88 191469-20-1 CAPLIS (Preparation of the Capus Capus

Absolute stemporhemistry

L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

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L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1997:8904 CAPLUS DOCUMENT NUMBER: 126:31657

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PATENT ASSIGNEE(S)

SOURCE

DOCUMENT TYPE

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

INVENTOR(S):

PATENT NO.	KIND DATE	APPLICATION NO.	DATE

WD 9628465	A1 19960919	NO 1996-US2683	19960307
W: AL, AH,	AT. AU. AZ. 88.	BG. SR. SY. CA. CH. CN.	CZ. DE. OK. EE.
ES, FI.	GB, GE, HU, 1S.	JP. KE. KG. KP. KR. KZ.	LK. LR. LS. LT.
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EP 815124 81 20021204 P 813.04 10 2022.204 R: AT, BE, CH, DE, CN, ES, FR, GB, GR, JT, LT, LU, NL, SE, PT, 1E, FI 3P 1150/920 12 195992.216 3P 1996-527647 19590307 R0 217-619 12 20011010 RU 1997-116623 1990307

RU 2174519 AT 229033 PL 184771 MO 9704147 US 6172101 PRIORITY APPLN. 1MFO.: E 20021215 81 20021231 A 19971104 81 20010109

OTHER SOURCE(S): GRAPHIC IMAGE:

L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry

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 CAPLUS

 OI
 Carbanic e.cl. (_[(18).28)-2-[([13.28)-3-[(1.3-benzod(oxpl-3-ylsu)foryl)](2-aethylprogyl)almino]-1-([oxtly) sulforyl)almino]-1-([oxtly) sulforyl)acthyl]-2-oxecthyl)-. 1.1-denethylecthyl ester (9C1)
 (CABMET ANGE)

Absolute stereochemistry

183553-92-6 CAPLUS ANT 103993-72-0 CHPLIS ON Propagatide, 2-anno-N-[(15,28)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-nethylpropyl)anino]-2-bydroxy-1-(phenylnethyl)propyl]-3-(nethylsulfonyl)-annohydrochloride, (28)- (901) (CA INDEX MAME)

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L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

US 1999-451920 A3 19991201 HARPAT 126:19331 1.4 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS OTHER SOURCE(S):

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Absolute stereochemistry

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1011. CL. STAN CANAGE AND ACCESSION ACCESSION

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L4 AMSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

9N 183812-50-2 CAPLUS
CII 1-Pyrrollidineaceastide. N+(1R)-2-([(1S,2R)-3-((1.3-betzodtoxol-5-ylsulfory)]/(2-nethylszopy)) anino]-2-tydroxy-1-(pharylmethyl)propy] anino]-1-(methylsulfory) introllyl-2-coxecty)]- (9CI) (CA IMEX MME)

[T 183553-90-4P 183553-91-5P 183553-92-6P 183553-93-7P RL: RCY (Reactant): SPM (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preps. of amino acid hydroxyethylaminosulfonemide retroviral protease

(prept. of Batton extra gravayasa, prept. of Batton extra gravayasa, prept. of Batton (prept. of Batto

L4 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

18353-91-5 CAPLIS
Carbanc acid. {(18)-2-{(1(3-28)-3-{(1(3-bencotlosol-5-yisulfory))/(2-methylpropy)asiol-2-hydrouy-1-(phenylnethylpropy)asiol-1-{(nethylsulfory)hethyl)-2-owoethyl)-- 1,1-dinethylethyl ester (9CI) (CARDKE MRE)

Absolute stereochemistry.

18353-92-6 (APLIS
Proparaside, 2-anino-N-([15.20-3-[(1.3-benzodioxol-5-ylsulfonyl)(2-nethylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl-3-(nethylsulfonyl)-acontydrochloride, (28)-(3Cl) (CA 188EX MME)

Absolute stereochemistry

183553-93-7 (APLIS
Proparatide, H-[15], 28)-3-(11,3-bettordioxol-5-y)sulfony))(2necth)propy)annol-2-hydroxy-1-(pleny)sethylpropy)]-2[(Chloroacety)annol-3-(nethylsulfony))-, (28)- (9C1) (GA INIEK NAME)

Absolute stereochemistry

Action of bisamon and proteins from the first proteins from the first from the fi | March | Marc

P 91543 A. 1991229 D 91547-9020 19960000 2: AT. 8. C. 00. 10. C. 0. C. 1. C ND 1997-4149 19970309 US 1998-913096 19980121 US 1995-402450 A2 19950310 US 1995-479071 A 19950807 PP 1996-910337 A3 19960307 NO 1996-US2665 W 19960307

OTHER SOURCE(S): MARPAT 126:8710 Page 42

L4 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 AMSNER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

ASSINCT: SISTEMATION OF STREET AND ASSISTANCE (SI = ally): alley): all

- protease inhibitors) 183553-90-4 CAPLUS
- INDUST-1914 LAPLUS
 Carbastic acid. {(18)-2-{((18)-2)-{(1.3-benzodioxol-5-yisulfonyi)(2-seth)jprogyi)amnoj-2-hydrocy-1-(phenyisethy)jprogyi]amnoj-1((nethyithio)sethyi]-2-oxoethyi]-. 1,1-disethylethyi ester (901) (CA
 INDEX NOVE)

Absolute stereochemistry

RN 18383-91-5 CAPLUS
CK Carbanic acid. ([18]-2-[(15,28)-3-[(1.3-benzodiouol-5-ylsu)fenyl)]-2-nethylorgoy)Jannol-2-hydrouy-1-(phenylnethyl)propyl)Jannol-1[(nothylsu)fenyl)methyl)-2-ouoethyl)-. 1.1-dinethylethyl ester (9CI) (CA
HMECK MANGE)

L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

18353-92-6 CMPLIS
Proparantide, 2-aniso-1-([15,28)-3-([1,3-beroodlown)-5-y-jsul forly]) (2earthylpropy) anison-)2-hydroxy-1-(phenylmothyl)propy])-3-(nethylsul forly)norohydrochleride, (28)- (91) (CA IRDEX NME)

Absolute stereochemistry.

•

18353-93-7 CAP.US
Propinanide, N-{(13.28)-3-{(1.3-beatodioxol-5-ylsulfonyl)(2nethylpropyl)anino]-2-hydroxy-1-(pherylnethyl)propyl]-2((chloroacetyl)anino]-3-(nethylsulfonyl)-- (28)- (9(1)) (CA 180EX NAME)

Absolute stereochemistry

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1996 657025 CAPLUS DOCUMENT NUMBER: 125:328302

TITLE

125:328027
Proportion of N-[C[(sulforp) alkanop) partico(hydronyalky Proportion of N-[C[(sulforp) alkanop) partico(hydronyalky Proportion of N-1 Napole, N-1 Napol INVENTOR(S)

PATENT ASSIGNEE(S): SOURCE :

LAMGUAGE: English
FAMILY ACC. MLM. COUNT: 6
PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE

EP 813619 M. 19971007
EP 813619 A. 19971299 EP 1996-911229 19960007
EP 813619 B1 22010599
R. A.T. BE, C.H. CE, C.H. CE, GR. S. FR. GB, GR. 1T. L1. LU. NL. SE, PT. IE. S9 9607400

S1. BR 9607450 JP 11503414 AT 201014 NO 9704146 US 5985870 A 19980630 T2 19990326 E 20010515 A 19971107 A 19991116 B1 20020430 8R 1995-7450 19960307 JP 1995-527545 19960307 AT 1996-911229 19960307 W0 1997-4145 19970909 US 1997-91369 19971219 US 2000-672449 20000929 US 1997-91309 19971219
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OTHER SOURCE(S): MARPAT 125:328302 CRAPHIC IMACE

Page 43

L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

1.4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

ABSTRACT

17 174(3)-5-9-30304-7-2 g 33004-7-2 g 33004-7-3 g 3300

Absolute stereochemistry

psouv-2-0 CAPLIS

Propanimide. N-{(15.2R)-3-[[(2.3-dihydro-1.4-benzodioxin-6-yl)su|foryl](2-methylpropyl)amno]-2-hydroxy-1-(phanylmethyl)propyl]-2-methyl-3-(methylsu|foryl)-. (25)- (9(1) (CA IMDEX MME)



L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

18304-73-1 CAPLUS
Propenamide: N-(1(S.28)-3-((6-benzothiazoly)sulfony))(2-methylpropy))aninol/2-hydroxy-1-(phenylaethyl)propy)]-2-methyl-3-(methylsulfonyl)-. (25)- (9CI) (CA IMBEX MARE)

Absolute stereochemistry:

RV 183064-75-3 CAPLUS

IN Propinisation - N°-(1252)-3-{[(2,3-dithydro-5-benzofarany])sal fony]](2methyl propy) harmoj-2-hydroxy-1-(pheny) methyl 1/propy)]-2-methyl 1-3(methyl sul fony))-. (25)- (9CI) (CA IMDEX MAYE)

Absolute stereochemistry.

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

183182-29-8 CAPLUS
Propriamide: N-(1(15.28)-3-(11.3-benzodiox01-5-y1sul fonyl) (2methyl propyl) amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(S)methylsul finyl]-. (25)- (9(1) (CA. INGEX_NAME)

Absolute stereochemistry

- II 18000-99-JP 180005-31-89 RL RCI (Rectavel); 59th (Symbotic preprintation); NRCI (Preparation); NRCI (repress of RCI (Rectavel); 19th (Symbol) principly of Preparation); NRCI (Rectavel); 19th (Rectavel); 1

Absolute stereochemistry

RN 183005-01-8 CAPUS
ON Propanamide. N-[(15.28)-3-[(1.3-benzodroxol-5-y]sulfonyl)(2-

Page 44

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued)

80 1830/4-76-4 CARLIS
CR Carbanic acid. [5-f[f[(28.35)-2-hydroxy-3-f[(25)-2-sethyl-3-inethylas] (nyl)-1-cxopropy[]asinop]-4-phenylbatyl [(2-sethylproxy)]asinop]asinop]-19-bit-bentinidazol-2-yl]-. nethyl ester (9C1) (CA 1808/cr.WMC)

RM 183004-77-5 CAPUIS
ON Properenide. N. [CLIS.2R1-3-[[(2-amino-6-benzothiazolyl)su) foryl](2-methylpopyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsul foryl)-. (2S)- (9CI) CA INDEX NAME)

Absolute stereochemistry.

RM 183004-78-6 CAPLUS
CN Proparante. N. F(15.28)-3-[(5-benzothlazolylsulfonyl)(2-methylpropyl)anino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-. (25)- (9C1) (CA INDEX NWE)

L4 ANSHER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) nethylpropyl)amino]-2-hydroxy-1-(phenylnethyl)propyl]-2-nethyl-3-(methylthio)- (25)- (9CI) (CA [NDEX MME)

L4 MARIAE NO 97 18 CAVILS COPYRIGHT 2000 MCS
MARIAES NAME:
1304.1302.07 CAVILS
1304.13

COURT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

				APPLICATION N	
MO	9533464	A2	19951214	MD 1995-US667:	3 19950602
MO		A3			
	W: AH.	AT. AU. 88	. BG. BR. I	BY. CA. CH. CH. CZ.	DE. DK. EE. ES. FL.
	68.	GE. HU. IS	. JP. KE. I	G. KP. KR. KZ. LK.	LR. LT. LU. LV. HD.
	MG.	HIS. HM. HX	. NO. NZ. I	PL. PT. RO. RU. SD.	SE. SG. SI. SK. TJ.
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					GA. GN. ML. MR. NE.
		TD. 16			
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					LI. LU. M., PT. SE
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M)	9605136	Ä	19970120	NO 1996-5136	19961202
FI	9604835	Α.	19970129	FI 1996-483S	19961203
PRIORIT	Y APPLN. 1	INFO.:		US 1994-2\$3638	A2 19940603
				MD 1995-US6673	
ABSTRACT	T:				

MSTINCT:
A sethod is disclosed for the treatment of assertal in nectronists infections, e.g. HIV. using continuities of retrieval proteose ministers which are effective in prevention be replication of the retornises in vitico are included in the continuities of the retornises in vitico or included continuities of the retornises in vitico or included continuities of the retornise of the retornis

Page 45

- L4 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2003 ACS (Continued) agents other than processe inhibitors. Prepn. and activity of selected inhibitors is included.
- IT 1/4303-66-99
 RL: BMC (Biological activity or effector, except adverse): 850 (Biological study, unclassified): SPM (Synthetic preparation): ITBI (Therapeutic use): 810. (Biological study): PREP (Preparation): ISES (Uses) (retrovine) protesse inhibitor combinations, and protesse inhibitor
- (retrovire) protesse inhibitor combinations, and protesse inhibitors, and protesses inhibitors, and

10/082,123 Page 46

=> log y COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 83.32	TOTAL SESSION 232.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-11.72	-11.72

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